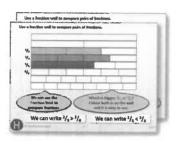
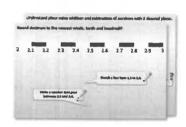
### Week 7, Day 1 Calculate time intervals

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. If possible, watch the **PowerPoint presentation** with a teacher or another grown-up.



OR start by carefully reading through the **Learning Reminders**.



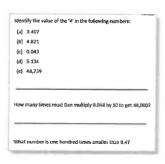
Tackle the questions on the Practice Sheet.
 There might be a choice of either Mild (easier) or Hot (harder)!
 Check the answers.



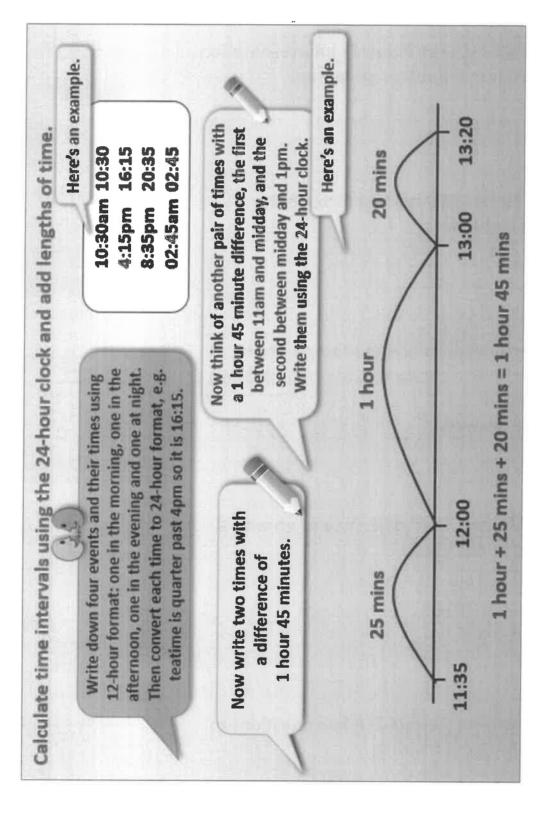
3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?



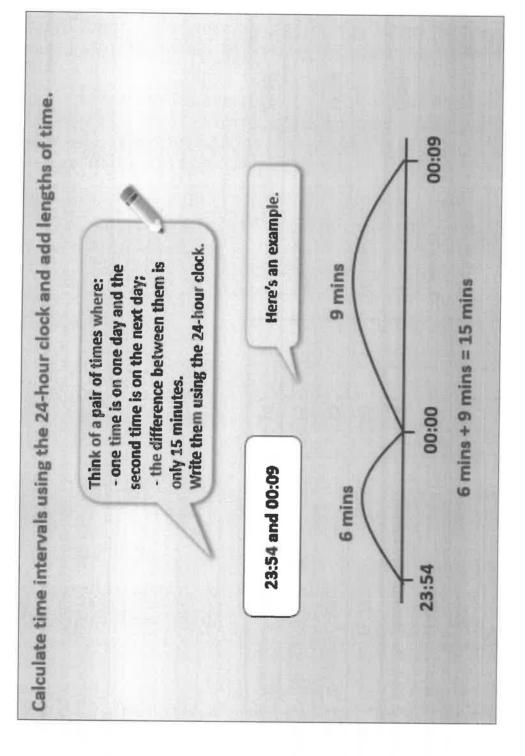
4. Have I mastered the topic? A few questions to Check your understanding. Fold the page to hide the answers!



# Learning Reminders



# **Learning Reminders**



# **Practice Sheet Mild** Cinema listings

Fill in the missing information.

Film	Start time	Length of film	Finish time
Screen 1: Tom Ted's Holiday	14:20	75 minutes	
Screen 2: Molly the Mischievous Meerkat	14:35		15:55
Screen 1: Superheroes Reunite	15:50	100 minutes	
Screen 2: Voyage to Venus	16:10		17:50
Screen 1: The Legend of Zanuk	19:15	125 minutes	
Screen 2: Journeys of Magical Mystery	19:30		21:45

# Challenge

- Work out how long each screen is empty between the first and second film. Work out the total film time for each screen. Write each answer in hours and minutes.
- 0 m
- Is there time to show 'Battlecats' before 'The Legend of Zanuk'? Battlecats has a running time of 1 hour 50 minutes.

# Practice Sheet Hot Cinema listings

Fill in the start times.

Film	Start time	Length of film	Finish time
Screen 1: Andy the aardvark's adventures		80 minutes	15:35
Screen 2: Tina the trainee superhero		75 minutes	15:40
Screen 1: Return of the dinosaurs		90 minutes	17:20
Screen 2: Planet rescue		95 minutes	17:30
Screen 1: Journey to Jupiter		130 minutes	21:20
Screen 2: The last sunrise		115 minutes	21:25

#### **Practice Sheets Answers**

#### Cinema listings (mild)

Film	Start time	Length of film	Finish time
Screen 1: Tom Ted's Holiday	14:20	75 minutes	15:35
Screen 2: Molly the Mischievous Meerkat	14:35	80 minutes	15:55
Screen 1: Superheroes Reunite	15:50	100 minutes	17:30
Screen 2: Voyage to Venus	16:10	100 minutes	17:50
Screen 1: The Legend of Zanuk	19:15	125 minutes	21:20
Screen 2: Journeys of Magical Mystery	19:30	135 minutes	21:45

#### Challenge

- 1. Between the first and second film Screen 1 is empty for 15 minutes and Screen 2 is also empty for 15 minutes.
- 2. The total film time on each screen is:

Screen 1: 300 minutes / 5 hours

Screen 2: 315 minutes / 5 hours 15 minutes.

3. There isn't enough time to show Battlecats as there is only 1 hour 45 minutes between Superheroes Reunite and The Legend of Zanuk, Battlecats is 1 hour 50 minutes long.

#### Cinema listings (hot)

Film	Start time	Length of film	Finish time
Screen 1: Andy the aardvark's adventures	14:15	80 minutes	15:35
Screen 2: Tina the trainee superhero	14:25	75 minutes	15:40
Screen 1: Return of the dinosaurs	15.50	90 minutes	17:20
Screen 2: Planet rescue	15.55	95 minutes	17:30
Screen 1: Journey to Jupiter	19:10	130 minutes	21:20
Screen 2: The last sunrise	19:30	115 minutes	21:25

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## A Bit Stuck? Time to time

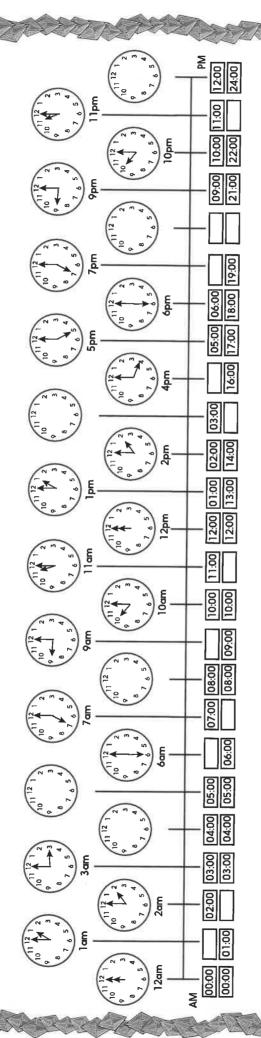
Work in pairs, but record your work on your own sheet

What to do:

Fill in the missing times on the time line.

Things you will need:
• A pencil





# S-t-r-e-t-c-h:

Mark on a time between 20:00 and 21:00. Work out how much time is left before midnight. Mark on a time between 13:00 and 14:00. Work out how many minutes it is before 2pm. Mark on a time between 16:00 and 17:00. Work out how much time is left before 8pm.

# Learning outcomes:

- I can convert times from am/pm to 24-hour clock and vice versa.
- I am beginning to say how long it is to the next hour.

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#### Check your understanding Questions

Here is the time each child goes to sleep.

Find out what time they each wake up if the first two sleep 9 hours and the second two sleep 9.5 hours.

Amit: asleep at 22:00 Anja: asleep at 21:45

Sunil: asleep at 21:55 Asha: asleep at 22:30

Which of these times would **not** change if you were using 24-hour clock?

- 3 o'clock in the middle of the night.
- Quarter to 2 after lunch
- Midnight
- Twenty past midday.
- 6pm

Use 24-hour clock to write any that will change.

#### Check your understanding Answers

Here is the time each child goes to sleep.

Find out what time they each wake up if the first two sleep 9 hours and the second two sleep 9.5 hours.

Amit: asleep at 22:00 wakes at 07:00

Anja: asleep at 21:45 wakes at 06:45

Sunil: asleep at 21:55 wakes at 07:25

Asha: asleep at 22:30 wakes at 08:00

Children should be writing the digital times correctly, with 4 digits and a colon separating hours and minutes. A good way to solve these is to count on from the starting time using an empty timeline.

Which of these times would *not* change if you were using 24-hour clock? All change apart from twenty past midday and 3 o'clock in the middle of the night.

Use 24-hour clock to write any that will change:

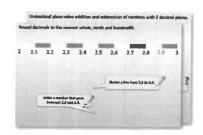
- 3 o'clock in the middle of the night. 03:00 doesn't change.
- Quarter to 2 after lunch 13:45.
- Midnight 00:00.
- Twenty past midday. 12:20 doesn't change.
- 6pm 18:00.



#### Week 7, Day 2 24-hour timetables

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



Tackle the questions on the Practice Sheet.
 There might be a choice of either Mild (easier) or Hot (harder)!
 Check the answers.



3. Finding it tricky? That's OK... have a go with a grown-up at **A Bit Stuck?** 

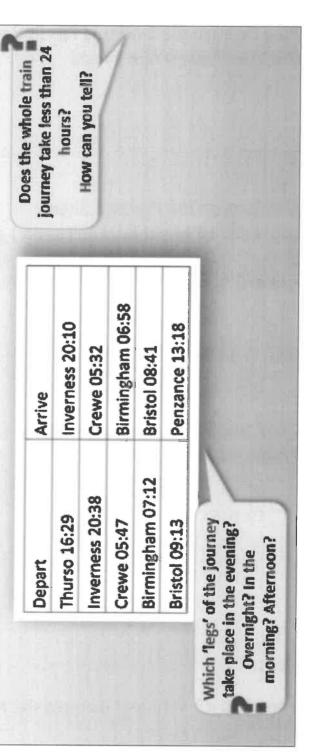


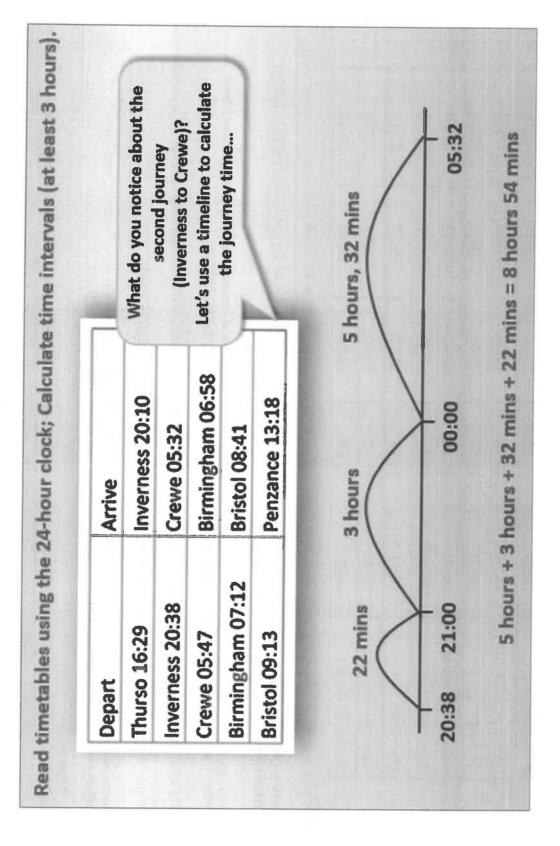
4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...

# **Learning Reminders**

Read timetables using the 24-hour clock; Calculate time intervals (at least 3 hours).

- hours. She is going from near John O'Groats in Scotland to the end of Comwall! Deidre is trying to find out if it is possible to travel from Thurso (the most northern rail station in the UK) to Penzance (the most southerly) in under 24
- Deidre has planned a journey where she will catch five trains and has found the following train times...





# Practice Sheet Mild Reading timetables

Penzance	12:54	14:00	16:00	17:38	19:13
Truro	13:34	14:41	16:42	18:23	19:52
St Austell	13:50	14:59	17:00	18:40	20:09
Bodmin Parkway	14:10	15:18	17:22	18:59	20:29
Liskeard	14:23	15:32	17:36	19:12	20:43
Plymouth	14:51	15:57	17:59	19:37	21:18
Newton Abbot	15:30	16:38	18:42	20:18	22:04
Exeter St Davids	16:00	17:00	19:03	20:40	22:38

After her epic end-to-end train journey, Deidre's train from Thurso finally gets into Penzance at 13:18.

- Which is the first train she can catch home from Penzance to Exeter? What time would she get to the station in Exeter? Where is the first stop on this train? How long does it take to get there?
- She decides to stretch her legs, have some lunch and then do some shopping in Penzance before setting off for home. What train might she catch? What time would she get to Exeter? How long would this take? N
- She's just had a text to say that some of her friends can meet her at Plymouth station at 6pm and take her for a celebratory meal What's the last train she can catch to meet her friends? How long will this journey take? before taking her home. So she decides to stay a while in Penzance. m.
- Some of the trains are slower than others because some stop at smaller station in between Penzance and Truro. Which is the slowest train between Penzance and Truro, and which is the fastest? 4



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# Practice Sheet Hot Reading timetables

Penzance	12:54	14:00	16:00	17:38	19:13
Truro	13:34	14:41	16:42	18:23	19:52
St Austell	13:50	14:59	17:00	18:40	20:09
Bodmin Parkway	14:10	15:18	17:22	18:59	20:29
Liskeard	14:23	15:32	17:36	19:12	20:43
Plymouth	14:51	15:57	17:59	19:37	21:18
Newton Abbot	15:30	16:38	18:42	20:18	22:04
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After her epic end-to-end train journey, Deidre's train from Thurso finally gets into Penzance at 13:18.

- Which is the first train she can catch home from Penzance to Exeter? What time would she get to the station in Exeter? How long would this take?
- She decides to stretch her legs, have some lunch and then do some shopping in Penzance before setting off for home. What train might she catch? What time would she get to Exeter? How long would this take? N
- She's just had a text to say that some of her friends can meet her at Plymouth station at 6pm and take her for a celebratory meal What time will she get into Plymouth? How long will this journey take? before taking her home. They tell her to catch the 16:00 train. ന്
- Some of the trains are slower than others (because some stop at smaller station in between). Which is the slowest train, between Penzance and Exeter, and which is the fastest?

#### **Practice Sheets Answers**

#### Reading timetables (mild)

- 1. The next train is at 14:00, she will get to Exeter at 17:00. The first stop is Truro, this will take 41 minutes.
- 2. If she gets the 16:00, she will get to Exeter at 19:03, 3 hours and 3 minutes. If she gets the 17:38, she will get to Exeter at 20:40, 3 hours and 2 minutes. If she gets the 19:13, she will get to Exeter at 22:38, 3 hours and 25 minutes.
- 3. The last train that she can get to meet her friends at 6pm is the 16:00. She will get into Plymouth at 17:59, the journey will take 1 hour and 59 minutes.
- 4. The slowest train is the 17:38, the fastest train is the 19:13.

#### Reading timetables (hot)

- 1. The next train is at 14:00, she will get to Exeter at 17:00. This will take 3 hours.
- 2. If she gets the 16:00, she will get to Exeter at 19:03, 3 hours and 3 minutes. If she gets the 17:38, she will get to Exeter at 20:40, 3 hours and 2 minutes. If she gets the 19:13, she will get to Exeter at 22:38, 3 hours and 25 minutes.
- 3. She will get into Plymouth at 17:59, the journey will take 1 hour and 59 minutes.
- 4. The slowest train is the 19:13, the fastest train is the 14:00.

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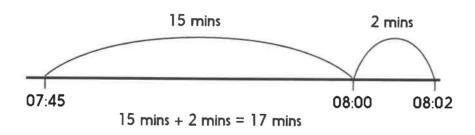
### A Bit Stuck? Hogwarts train timetable

Route number	71	97	53	35	61	47	67
Diagon Alley	07:45	08:45	09:00	14:15	15:00	15:50	19:35
Kings Cross	08:02	09:02	09:17	14:45	15:17	16:07	19:52
Little Whinging	09:15	10:15		16.37		17:20	
Ottery St Catchpole	12:45	13:50		20:21		20:50	
Gretna Green	18:50		15:33				05:02
Hogwarts	20:58		18:25		23:55		07:36
Hogsmeade	21:07	1	18:34		00:04	<b></b> -	07:45

For each route, find how long the train takes between Diagon Alley and Kings Cross. What do you notice?

Investigate journey times between other pairs of stations. In each case, find the quickest and the slowest journey times.

Draw timeline jottings to help you. e.g.



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### Investigation Steam train day out

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- North Yorkshire Moors steam railway summer timetable (see resource)
- Some tourists want to stop at each station and explore every place that the steam train visits.
- Find a way to leave Pickering, get off at every station, get back on a different train each time, then return directly from Whitby to Pickering at the end of the day.
- o Work out an itinerary, including how long they can spend at each place.

Some questions For each question, be sure to explain your ideas fully...

- 1. Do you think the tourists will get the most out of each location, given the time they can spend in each?
- 2. If you were planning a day out, how many places would you stop at?

  Do you get the same amount of time at each stop?
- Can you find an itinerary that makes the best use of the time if you stop off at three different places? Explain your choices.
- 4. Is it possible to plan a day with lunch at Whitby and still stop and get off at every station?

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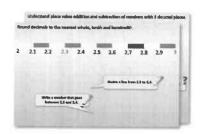
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Inve North Yorkshire Moo	00:60	09:19	•	09:47	10:00	10:13	10:35	яй	•	10:30	10:50	11:03	11:20	11:40	
Nor	Depart	Depart	Request	Depart	Arrive	Depart	Arrive	Depart	Arrive	Depart	Depart	Request	Depart	Arrive	
	Pickering	Levisham	Newtondale	Goathland	Grosmont	Grosmont	Whitby	Whitby	Grosmont	Grosmont	Goathland	Newtondale	Levisham	Pickering	© Hamilton Trust



## Week 7, Day 3 Solving equations

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



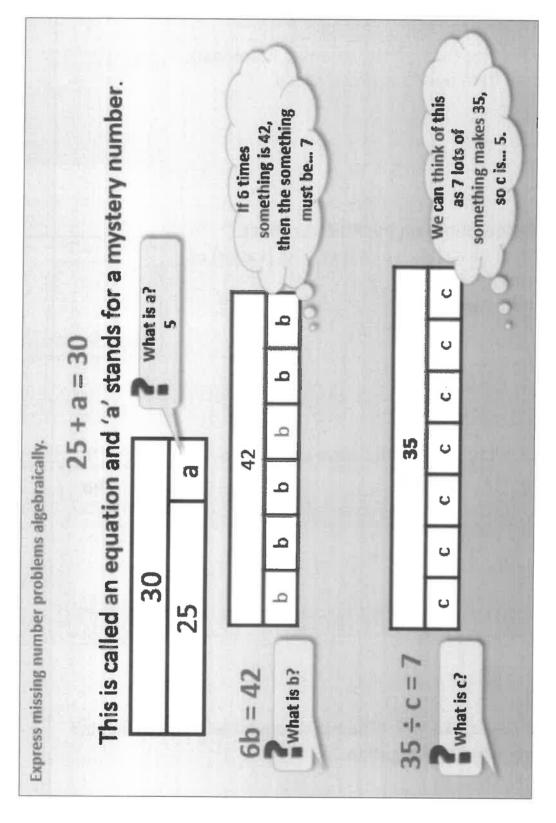
Tackle the questions on the Practice Sheet.
 There might be a choice of either Mild (easier) or Hot (harder)!
 Check the answers.



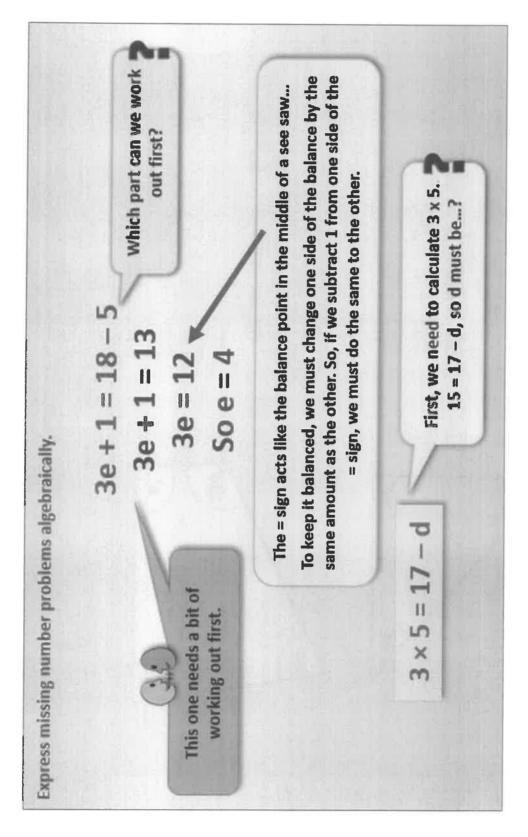
3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?

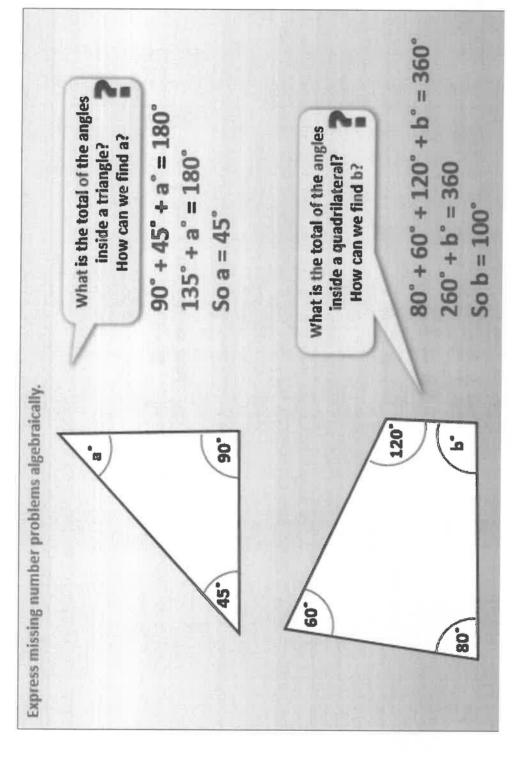


4. Think you've cracked it? Whizzed through the Practice Sheets? Have a go at the **Investigation**...



# **Learning Reminders**





**Practice Sheet Mild** Solving equations

Solve these equations:

2. 
$$15 - b = 8$$

4. 
$$d - 2 = 18$$

$$6.4f = 24$$

0

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23

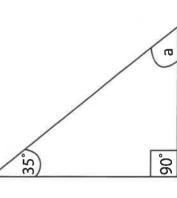
 $5_{\circ}$  e + 10 = 23

$$7 \cdot g \div 3 = 4$$

8. 
$$20 \div h = 5$$



9. 
$$90^{\circ} + 35^{\circ} + a = 180^{\circ}$$



 $10.60^{\circ} + 85^{\circ} + b = 180^{\circ}$ 

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Practice Sheet Hot Solving equations

Solve these equations:

1. 
$$15 - \alpha = 7$$

$$3.4c = 48$$

$$5.5e + 2 = 32$$

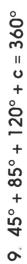
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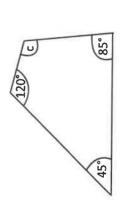
10

6. 10 + 2f = 16

2. 8 + b = 134.  $90 \div d = 3$ 

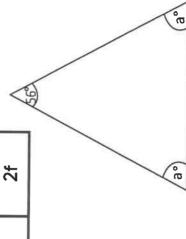






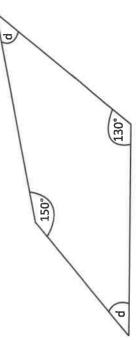
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8.  $56^{\circ} + 2a = 180^{\circ}$ 

10.  $130^{\circ} + 150^{\circ} + 2d = 360^{\circ}$ 



#### **Practice Sheets Answers**

#### Solving equations (mild)

- 1. a = 5
- 2. b = 7
- 3. c = 12
- 4. d = 20
- 5. e = 13
- 6. f = 6
- 7. g = 12
- 8. h = 4
- 9.  $a = 55^{\circ}$
- 10.  $b = 35^{\circ}$

#### Solving equations (hot)

- 1. a = 8
- 2. b = 5
- 3. c = 12
- 4. d = 30
- 5. e = 6
- 6. f = 3
- 7.  $e = 72^{\circ}$
- 8.  $a = 62^{\circ}$
- 9.  $c = 110^{\circ}$
- 10.  $d = 40^{\circ}$

### A Bit Stuck? Mystery calculations



We can rewrite these mystery calculations with letters instead of empty boxes.

$$27 + a = 30$$

$$b \times 5 = 35$$

$$c - 35 = 65$$

$$45 \div d = 9$$

The letters just stand for mystery numbers. We've used a different letter in each number sentence so we don't get confused.

Let's solve the equations (number sentences) to find what each letter stands for, e.g.  $94 + \boxed{\phantom{0}} = 100$ 

Choose a new letter to use instead of box – any letter is fine! Rewrite the number sentence:

Work out what your letter stands for.

Repeat for the following, choose a different letter for each one.

$$\div 2 = 54$$

### Investigation Algebra chain

$$a + 15 = 20$$
  $a =$ 

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$$c \div b = 2$$
  $c =$ 

$$d - c = 24$$
  $d =$ 



3

h

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4.

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- Work out what a represents in the first equation.
- a represents the same number in the second equation. So, use 5 instead of a to work out what b represents, i.e.  $5 \times b = 40$ .
- Now work out b, use this in the third equation, work out c, use this in the next equation and so on.
- The last equation is a check! If your answers for a and e don't multiply to make 15, you have made a mistake somewhere.

Challenge

Can you create a similar chain of equations?

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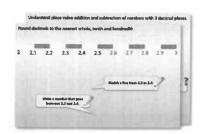
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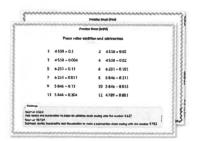
## Week 7, Day 4 Algebra puzzles

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



 Tackle the questions on the Practice Sheet.
 There might be a choice of either Mild (easier) or Hot (harder)!
 Check the answers.

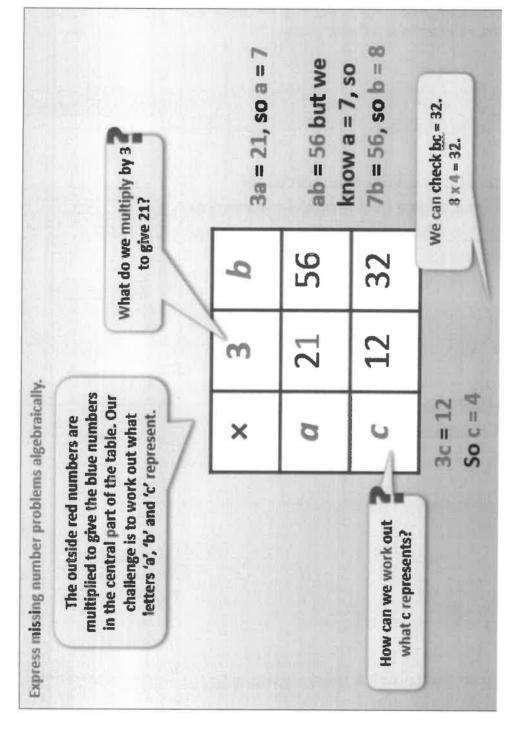


3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?



4. Have I mastered the topic? A few questions to Check your understanding. Fold the page to hide the answers!

ruen	tify the value of the '4' in the following numbers:
(a)	3.407
(b)	4.821
(c)	0.043
(d)	5.104
(e)	48,739
How	many times must Dan multiply 0.048 by 10 to get 48,000



Express missing number problems algebraically.

What do the letters d, e

and frepresent?

00	12	×
40	60	Ųī
24	36	ω

## Practice Sheet Mild Algebra puzzles

The pairs of letters/numbers on the outside of the table are added to give the numbers inside the table. Work out what numbers the letters represent.

+	а	b	С
45	54	65	68
30	39	50	53
26	35	46	49

				_
+	d	е	22	d=
46	76	65	68	e = f =
24	54	42	46	'
f	130	119	122	

a = b = c =

## Practice Sheet Hot Algebra puzzles

Work out what numbers the letters represent in these puzzles and problems.

1. X a b 4 20 48 c 35 84

2. X e f d 24 28 9 54 63

X 12 g 3 36 30 h 72 i

3.

- 4. Jason has k trading cards. Sally has 32. Altogether they have 60 trading cards. How many trading cards does Jason have?
- 5. Maya has 57 books. Eva has *m* more books than Maya. Altogether they have 120 books. How many more books does Eva have?
- 6. Chef has bought *n* buns as 20p each. He spent £40. How many buns did he buy?
- 7. Marcus collected 40 shells. He gave p shells to his sister. He was left with 32 shells. How many did he give to his sister?

#### **Practice Sheet Answers**

#### Algebra puzzles (mild)

$$a = 9$$
  $b = 20$ 

$$c = 23$$

$$d = 30 e = 19$$

$$f = 100$$

#### Algebra puzzles (hot)

1. 
$$a = 5$$

$$b = 12$$

2. 
$$d = 4$$

$$f = 7$$

3. 
$$g = 10$$

4. 
$$k = 28$$

5. 
$$m = 63$$

7. 
$$p = 8$$

### A Bit Stuck? Algebra puzzles

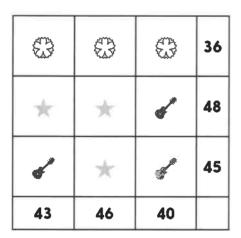
These puzzles were taken from <a href="https://www.mathplayground.com/algebra">https://www.mathplayground.com/algebra</a> puzzle. html, where you can try out lots more!

Your challenge is to work out what number each symbol represents in each puzzle.

1	1	Ø	13
٠	1	•	28
Ø	4	Ø	14
21	12	22	

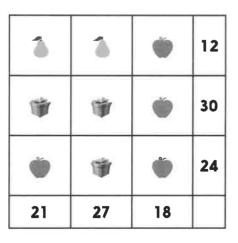
### Hint!

Start with the column of guitars. 3 lots of what make 12...?
Now choose one of the rows to work on...



### Hint!

Which row would be good to start with?



### Hint!

Which column would be useful to start with?

### A Bit Stuck? Algebra puzzles

These puzzles were taken from <a href="https://www.mathplayground.com/algebra">https://www.mathplayground.com/algebra</a> puzzle. html, where you can try out lots more!

Your challenge is to work out what number each symbol represents in each puzzle.

\$4.5 \$4.5	C.S	(A)	22
1	1	<b>†</b>	42
16	29	54	

### Hint!

Which row would it be helpful to start with?

### Check your understanding Questions

+	а	b	10
С	18	16	21
8	15	13	18
d	13	11	16

The pairs of letters/ numbers on the 'outside' of the table are **added** to give the numbers inside the table.

Work out what numbers the letters represent.

X	6	е	f
g	54	72	27
h	42	56	21
9	54	72	27

The pairs of letters/ numbers on the outside of the table are **multiplied** to give the numbers inside the table.

Work out what numbers the letters represent.

Fold here to hide answers

### Check your understanding Answers

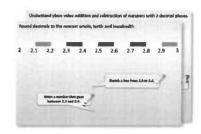
+	а	b	10
С	18	16	21
8	15	13	18
d	13	11	16



### Week 7, Day 5 Equations with two unknowns

Each day covers one maths topic. It should take you about 1 hour or just a little more.

1. Start by reading through the **Learning Reminders**. They come from our *PowerPoint* slides.



 Tackle the questions on the Practice Sheet.
 There might be a choice of either Mild (easier) or Hot (harder)!
 Check the answers.



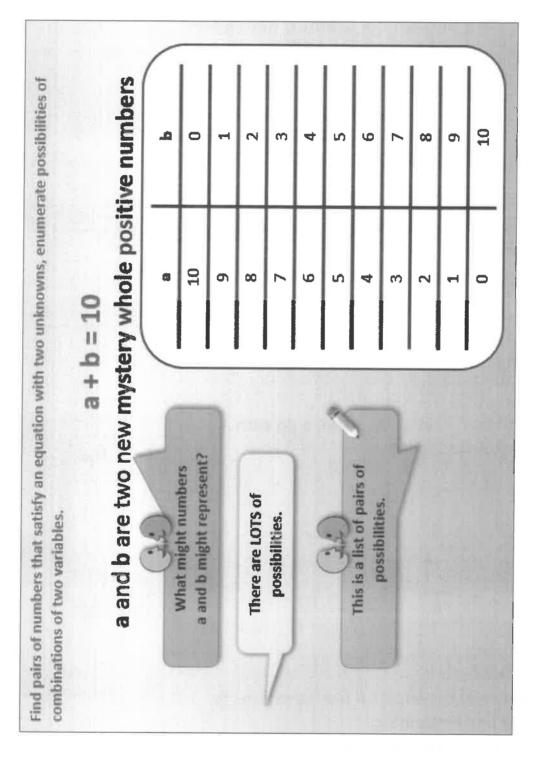
3. Finding it tricky? That's OK... have a go with a grown-up at A Bit Stuck?



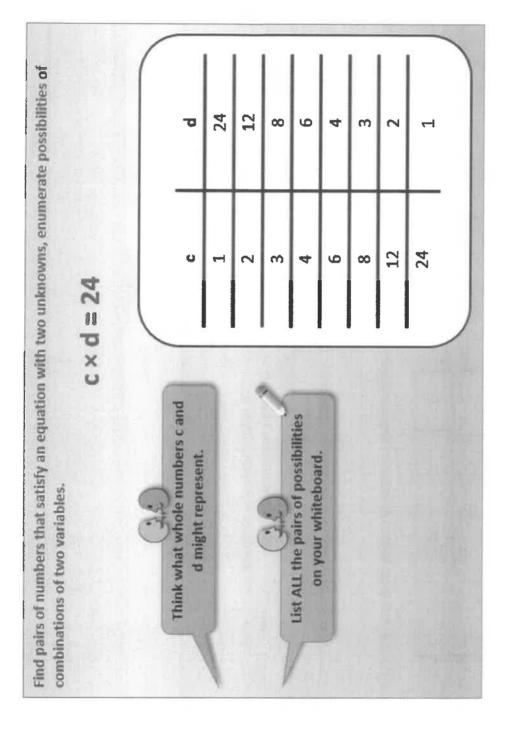
4. Have I mastered the topic? A few questions to Check your understanding. Fold the page to hide the answers!

·uL/	tily the value of the '4' in the following numbers:
(a)	3.407
(b)	4.821
{c}	0,043
(d)	5.104
(e)	48,739
_	
How	many times must Dan multiply 0.048 by 10 to get 48,000

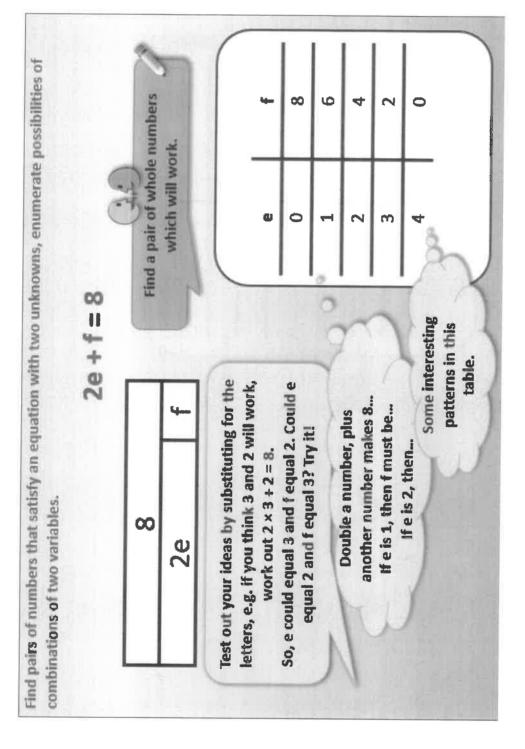
## **Learning Reminders**



## **Learning Reminders**



## **Learning Reminders**



## Practice Sheet Mild Equations with two unknowns

Write the possible pairs of answers for these equations. All answers are whole numbers.

$$a + b = 9$$

$$c \times d = 15$$

$$10 - e = f$$

$$g+h+1=1$$

$$j \times k - 1 = 1$$

$$m + n - 2 = 8$$

$$p x q = 20$$

Challenge

Can you make up a puzzle like this for your partner to solve?

# Practice Sheet Hot Equations with two unknowns

Find a pair of numbers that works in both equations:

$$a + b = 10$$

$$a \times b = 21$$

$$c - d = 6$$

 $c \times d = 16$ 

$$e + f = 12$$

$$e - f = 4$$

$$9 - h = 9$$

$$g \div h = 4$$

$$j \times k = 72$$

$$j + k = 2$$

Challenge

Can you make up a puzzle like this for your partner to solve?

### **Practice Sheets Answers**

### Equations with two unknowns (mild)

$$a + b = 9$$

### $c \times d = 15$

$$c = 1 d = 15$$
,  $c = 3 d = 5$ ,  $c = 5 d = 3$ ,  $c = 15 d = 1$ .

$$10 - e = f$$

$$e = 0 f = 10$$
,  $e = 1 f = 9$ ,  $e = 2 f = 8$ ,  $e = 3 f = 7$ ,  $e = 4 f = 6$ ,  $e = 5 f = 5$ ,  $e = 6 f = 4$ ,  $e = 7 f = 3$ ,  $e = 8 f = 2$ ,  $e = 9 f = 1$ ,  $e = 10 f = 0$ 

$$g + h + 1 = 11$$

$$j \times k - 1 = 15$$

$$j = 1 k = 16$$
,  $j = 2 k = 8$ ,  $j = 4 k = 4$ ,  $j = 8 k = 2$ ,  $j = 16 k = 1$ 

$$m + n - 2 = 8$$

$$m = 0$$
  $n = 10$ ,  $m = 1$   $n = 9$ ,  $m = 2$   $n = 8$ ,  $m = 3$   $n = 7$ ,  $m = 4$   $n = 6$ ,  $m = 5$   $n = 5$ ,  $m = 6$   $n = 4$ ,  $m = 7$   $n = 3$ ,  $m = 8$   $n = 2$ ,  $m = 9$   $n = 1$ ,  $m = 10$   $n = 0$ 

$$p \times q = 20$$

$$p = 1$$
  $q = 20$ ,  $p = 20$   $q = 1$ ,  $p = 2$   $q = 10$ ,  $p = 10$   $q = 2$ ,  $p = 4$   $q = 5$ ,  $p = 5$   $q = 4$ 

$$r = 0$$
 s = 14,  $r = 1$  s = 13,  $r = 2$  s = 12,  $r = 3$  s = 11,  $r = 4$  s = 10,  $r = 5$  s = 9,  $r = 6$  s = 8,  $r = 7$  s = 7,  $r = 8$  s = 6,  $r = 9$  s = 5,  $r = 10$  s = 4,  $r = 11$  s = 3,  $r = 12$  s = 2,  $r = 13$  s = 1,  $r = 14$  s = 0

$$2t + u = 10$$

$$t = 4 u = 2, t = 3 u = 4, t = 2 u = 6, t = 1 u = 8$$

### Equations with two unknowns (hot)

$$a = 7 b = 3 \text{ or } a = 3 b = 7$$

$$c = 8 d = 2$$

$$e = 8 f = 4$$

$$g = 12 h = 3$$

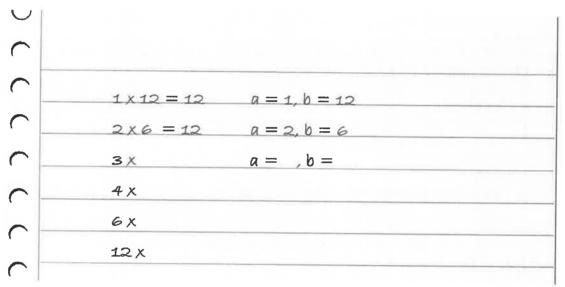
$$j = 12 k = 6$$

### A Bit Stuck? Mystery pairs

We can use letters to represent each number instead of empty boxes:  $a \times b = 12$ 

There are lots of possible pairs of whole numbers!

This person has started working through some answers. See if you can finish their work.



2. Two numbers have been added together to make 9: \_\_\_\_\_\_ = 9

We can use letters to represent each number instead of empty boxes:

c + d = 9

There are lots of possible pairs of whole numbers!

Your challenge is to find them ALL!

3. Two numbers have been multiplied together to make 18: x = 18

We can use letters to represent each number instead of empty boxes:

$$exf = 18$$

There are lots of possible pairs of whole numbers!

Your challenge is to find them ALL!

### Check your understanding Questions

Both a and b are whole numbers. How many possibilities are there for values of a and b if a + 2b = 13.

2a is 5 more than 3b.

If a and b are both whole numbers and a < 10, what are the possible values for a and b?

A number less than 10 is multiplied by itself. The answer is equal to a different number multiplied by 9. What are the possible numbers?

Fold here to hide answers

### Check your understanding Answers

Both a and b are whole numbers.

How many possibilities are there for values of a and b

if a + 2b = 13. There are 7 solutions.

Since 2 x any number is an even number, a must be odd. Some children may miss the solution where b is 0. The solutions are:

a = 1 and b = 6

a = 3 and b = 5

a = 5 and b = 4

a = 7 and b = 3

a = 9 and b = 2

a = 11 and b = 1

a = 13 and b = 0

2a is 5 more than 3b.

If a and b are both whole numbers and a < 10, what are the possible values for a and b? Either a = 7 and b = 3, or a = 4 and b = 1.

A number less than 10 is multiplied by itself. The answer is equal to a different number multiplied by 9. What are the possible numbers?

Either  $3^2$  (= 1 x 9) or  $6^2$  (= 4 x 9).

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### What to do today

IMPORTANT Parent or Carer – Read this page with your child and check that you are happy with what they have to do and any weblinks or use of internet.

### 1. Read the start of a story

- Read Opening.
- What do we learn about the characters? Can you think of three important things that we learn about the narrator, Mum and Eric?

### 2. Think about being an outsider

- Read When Did I Feel Like an Outsider?
- Are any of these situations familiar to you? Are there other times that you felt like an outsider?
- Write about a situation that made you feel like an outsider. Explain what happened and how you would describe your feelings.

### 3. Listen to the whole story of Eric.

- Listen to the whole of the story of Eric and look carefully at the illustrations. Use the *PowerPoint Eric* or watch Ruth Merttens reading the book https://www.youtube.com/watch?v=H71F0- QrpE.
- Read *Story Talk Questions*. Think about your answers and then write some of them in clear sentences.

### **Try the Fun-Time Extras**

- Can you find out some more about Shaun Tan? You could start at this website:
  - http://www.shauntan.net/books.html
- Can you interview other people to find out about the strangest visitor they've ever had to their house?

### **Opening**

Some years ago we had a foreign exchange student come to live with us. We found it very difficult to pronounce his name correctly, but he didn't mind. He told us to just call him 'Eric'.

We had repainted the spare room, bought new rugs and furniture and generally made sure everything would be comfortable for him. So I can't say why it was that Eric chose to sleep and study most of the time in our kitchen pantry.

'It must be a cultural thing,' said Mum. 'As long as he's happy.' We started storing food and kitchen things in other cupboards so we wouldn't disturb him.

But sometimes I wondered if Eric was happy; he was so polite that I'm not sure he would have told us if something bothered him. A few times I saw him through the pantry door gap, studying with silent intensity, and imagined what it must be like for him here in our country.

from Eric – by Shaun Tan

# When did I feel like an outsider?

When meeting new relations who I haven't met before.

At a party where I didn't know many people.

In someone else's family.

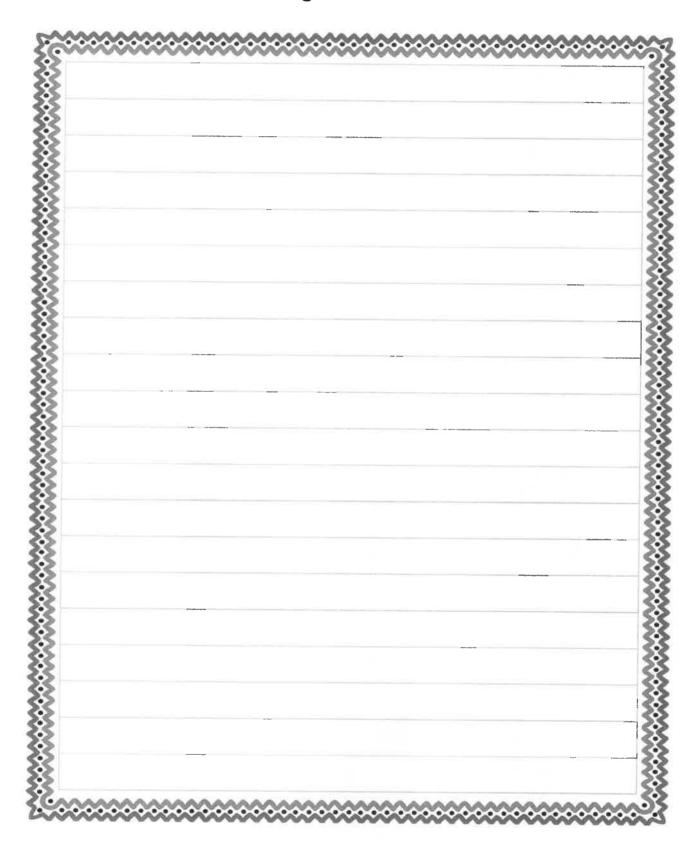
In a new shop or restaurant where people seem to know their way around.

When starting a new sport.

After moving house or school.

When travelling to a new and strange place.

### Feeling like an outsider



## **Story Talk Questions**

Does it remind you of anything you have ever read? Does it remind you of any situations or people in real life?	What puzzles or questions are you left with?
What did you like about the story? Is there anything that you disliked?	What patterns can you find in the story?



### What to do today

IMPORTANT Parent or Carer – Read this page with your child and check that you are happy with what they have to do and any weblinks or use of internet.

### 1. Imagine a character's questions

- Look closely at Eric's Questions
- What do you think he might be asking? Can you think of three possible questions for each of these pictures?
- If you would like to, watch the story again using the PowerPoint: Eric or watch Ruth Merttens reading the book <a href="https://www.youtube.com/watch?v=H71F0-QrpE">https://www.youtube.com/watch?v=H71F0-QrpE</a>

### 2. Remind yourself about Pronouns and Determiners

- Use the *PowerPoint* on *Pronouns* and *Determiners*. If this is not possible, use the *Revision Card* to remind yourself about these.
- Complete Pronouns and Determiners Practice.

### 3. Now for some writing

- Use words and pictures on the *Planner* to imagine a day out for Eric.
- Write about the day out, using pronouns and determiners for cohesion.

Well done! Share your writing with a grown-up. Show them some of the pronouns and determiners that you have used.

### **Try the Fun-Time Extras**

- Look at the *Endpapers*. These are Shaun Tan's drawings that he puts at the start and finish of his books. What is your favourite drawing? Could you make up a story about it?
- Could you make your own collection of sketches in this style?

### **Eric's Questions**

### What might Eric be asking?



From Eric by Shaun Tan

### **Pronouns and Determiners Practice**

### A Check your understanding

Identify the pronouns and determiners in these sentences. Underline them in two different colours.

- a) We went to the zoo to see some animals.
- b) Eric took a small packed lunch and I brought mine.
- c) My lunch was the thing Eric was most interested in. He examined my sandwiches.
- d) I did not see his. He kept it wrapped up in a tight package.
- e) It must be a cultural thing, my mum thought.

### **B** Explore cohesion using pronouns

Rewrite this extract, replacing the pronouns with nouns. How does it sound when you read it back?

Secretly I had been looking forward to having a foreign visitor - I had so many things to show him. For once I could be a local expert, a fountain of interesting facts and opinions. Fortunately, Eric was very curious, and he always had plenty of questions. However, they weren't the kind of questions I had been expecting. Most of the time I could only say, 'I'm really not sure' or 'That's just how it is!'

### C Explore cohesion using determiners

Think of unexpected questions Eric might ask about the objects. Write them, using determiners to specify more about the nouns, e.g. What would happen if I told  $\underline{\text{this}}$  disk  $\underline{a}$  secret? Do  $\underline{\text{these}}$  snacks enjoy  $\underline{\text{the}}$  film?



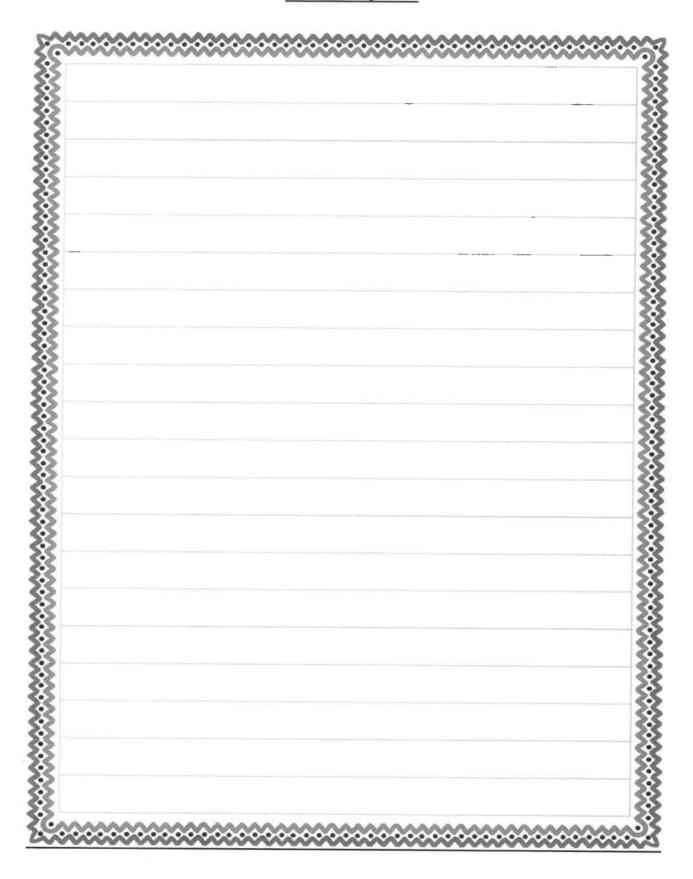


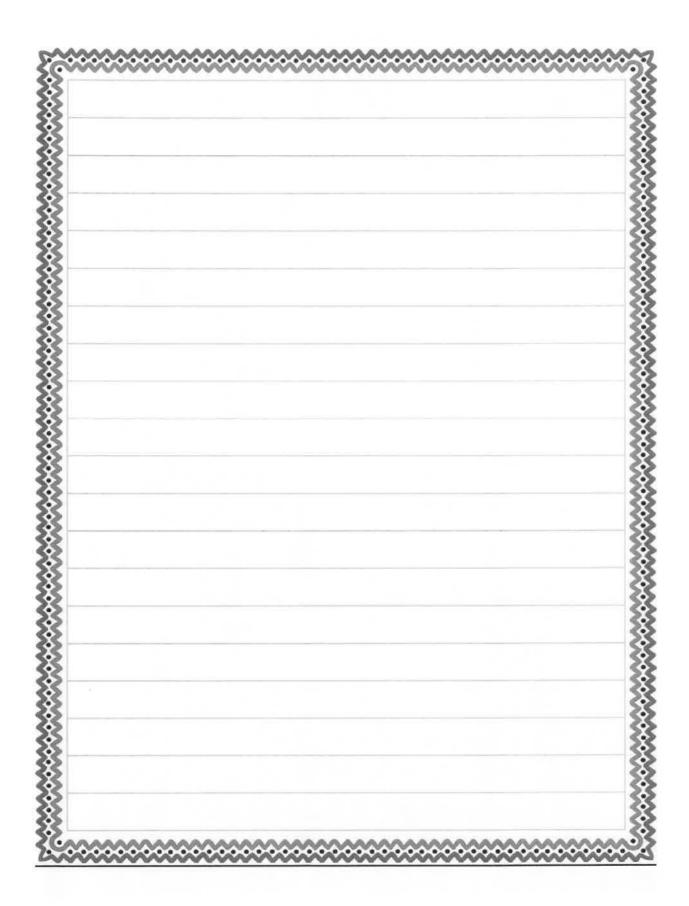
### D Imagine a day out with Eric

Imagine you took Eric out for the day. Think about what you might do and how he might surprise you.

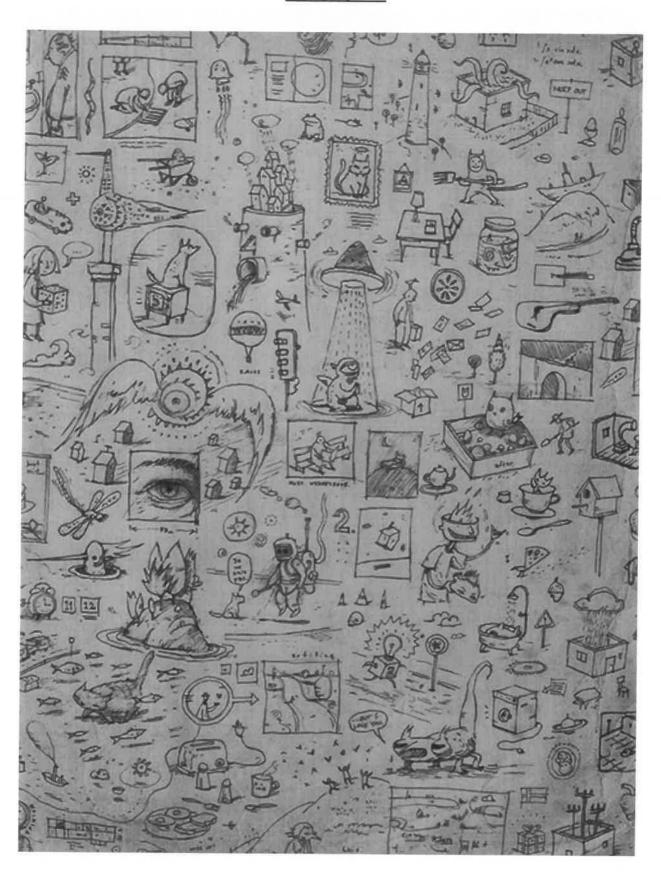
## Planner: Eric's Day Out

### **Eric's Day Out**





### **Endpapers**



### Pronouns and Determiners Practice - Answers

### A Check your understanding

Identify the pronouns and determiners in these sentences. Underline them in two different colours.

- a) We went to the zoo to see some animals.
- b) Eric took a small packed lunch and I brought mine.
- c) My lunch was the thing Eric was most interested in. He examined my sandwiches.
- d) I did not see his. He kept it wrapped up in a tight package.
- e) It must be a cultural thing, my mum thought.

### **B** Explore cohesion using pronouns

Rewrite this extract, replacing the pronouns with nouns. How does it sound when you read it back?

Secretly I had been looking forward to having a foreign visitor - I had so many things to show him. For once I could be a local expert, a fountain of interesting facts and opinions. Fortunately, Eric was very curious, and he always had plenty of questions. However, they weren't the kind of questions I had been expecting. Most of the time I could only say, 'I'm really not sure' or 'That's just how it is!'

Secretly Shaun had been looking forward to having a foreign visitor - Shaun had so many things to show the foreign visitor. For once Shaun could be a local expert, a fountain of interesting facts and opinions.

Fortunately, Eric was very curious, and Eric always had plenty of questions. However, the question weren't the kind of questions Shaun had been expecting. Most of the time Shaun could only say, 'Shaun is really not sure' or 'That's just how the situation is!'

### C Explore cohesion using determiners

Think of unexpected questions Eric might ask about the objects. Write them, using determiners to specify more about the nouns, e.g. What would happen if I told  $\underline{this}$  disk  $\underline{a}$  secret? Do  $\underline{these}$  snacks enjoy  $\underline{the}$  film? **Examples** 

Why is this bottle-lid crinkly round the edges? Why isn't it smooth? Why are some things wrapped in plastic? Why is this wrapper on the ground? What was in it?

### What to do today

IMPORTANT Parent or Carer – Read this page with your child and check that you are happy with what they have to do and any weblinks or use of internet.

### 1. Read the end of the story

• Read *Ending* and then read *Ending Questions*. Think about your answers and then write them as clear sentences.

### 2. Write a letter

- Use Letter Planner to plan a letter to send to Eric (imagine you are the narrator of the story).
- Write your letter carefully.

Well done! Share your writing with a grown-up. Explain why you thought of these particular questions.

### 3. Practise reading the story

- Practise reading the story out loud. Decide the pace that you will read and the expression that you will use. Find the text for the story here: <a href="https://www.theguardian.com/books/gallery/2009/may/13/shaun-tan-eric-story-pictures">https://www.theguardian.com/books/gallery/2009/may/13/shaun-tan-eric-story-pictures</a>
- When you are ready, read the story to somebody else or make a recording of yourself and send it someone.

### **Try the Fun-Time Extras**

- Watch this animation of Eric's story.
   <a href="https://www.youtube.com/watch?v=S3x3Zn-qKSQ">https://www.youtube.com/watch?v=S3x3Zn-qKSQ</a>
- Could you try to make your own version of the story? You could use photographs or you could create an animation.

### **Ending**

Nevertheless, none of us could help but be bewildered by the way Eric left our home: a sudden departure early one morning, with little more than a wave and a polite goodbye.

It actually took us a while to realise he wasn't coming back.

There was much speculation over dinner later that evening. Did Eric seem upset? Did he enjoy his stay? Would we ever hear from him again? An uncomfortable feeling hung in the air, like something unfinished, unresolved. It bothered us for hours, at least until one of us discovered what was in the pantry.

Go and see for yourself: it's still there after all these years, thriving in the darkness. It's the first thing we show any new visitors to our house. 'Look what our foreign exchange student left for us,' we tell them.

'It must be a cultural thing,' says Mum.



From Eric by Shaun Tan

### **Ending Questions**

1. Why do you think the family bewildered?
2. Why do you think that Eric chose to leave that way?
3. Have you ever had the feeling of something 'unfinished'. When?
4. How do you think the family felt when they saw the pantry?
5. Where do you think Eric has gone?

### **Letter Planner**

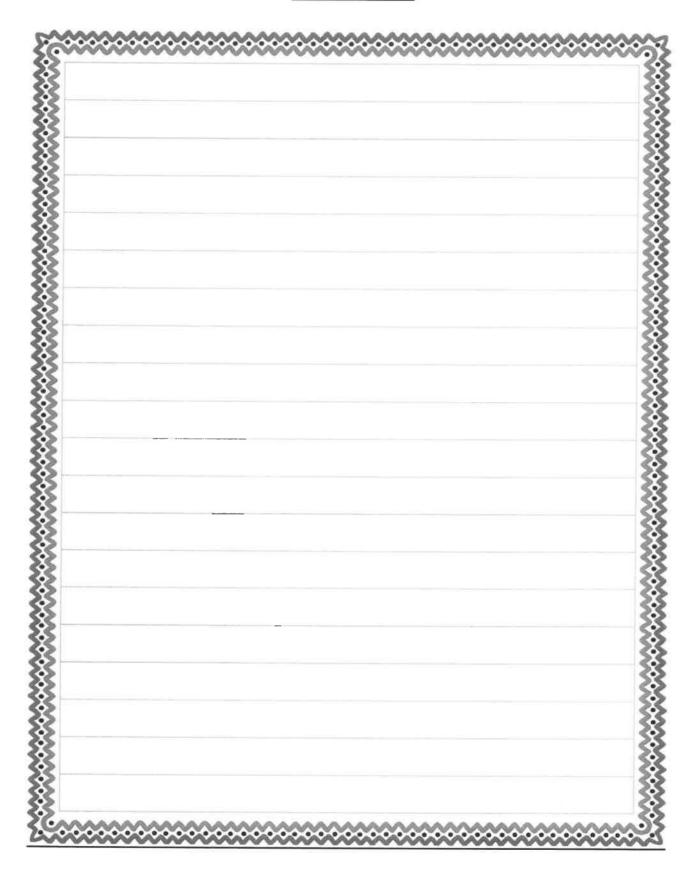
Think of 3-5 points for each section

What might you want to t
--------------------------

What might you want to ask Eric?

What hopes might you have for Eric?

### **Letter to Eric**





### What to do today

IMPORTANT Parent or Carer – Read this page with your child and check that you are happy with what they have to do and any weblinks or use of internet.

### 1. Read a poem

- Read Jack and the Beanstalk. Read it in your head and then read it out loud. Can you find the rhythm of the poem?
- Follow the words as you watch this video of the poem. What do you think are the good points of this performance?
   <a href="https://www.youtube.com/watch?v=DLcU650GcjY">https://www.youtube.com/watch?v=DLcU650GcjY</a>

### 2. Remind yourself about noun phrases

- Use the *PowerPoint* on noun phrases or, if this is not possible, remind yourself of these using the *Revision Card*.
- Complete Expanded Noun Phrases. Rewrite each sentence, expanding the noun phrase so that it has more information.

### 3. Now for some writing

- Use the *Planner* to show this version of Jack and the Beanstalk in words and pictures.
- Now write the story. Try to include as much humour as you can.

Well done! Share your writing with somebody else. Which parts of your story did they find funniest?

### **Try the Fun-Time Extras**

- Can you practise reading the poem and make a recording of yourself to share with someone else?
- Can you make some illustrations for your favourite parts of the poem?

## Jack and the Beanstalk Roald Dahl

Jack's mother said, 'We're *stony* broke!

Go out and find some wealthy bloke Who'll buy our cow. Just say she's sound

And worth at least a hundred pound.

But don't you dare to let him know
That she's as old as billy-o.'
Jack led the old brown cow away,
And came back later in the day,
And said, 'Oh Mumsie dear, guess

Your clever little boy has got.
I got, I really don't know how,
A super trade-in for our cow.'
The mother said, 'You little creep,
I'll bet you sold her much too cheap.'
When Jack produced one lousy bean,
His startled mother, turning green,
Leaped high up in the air and cried,
I'm absolutely stupefied!

bare!'

You crazy boy! D'you really mean You sold our Daisy for a bean?' She snatched the bean. She yelled, 'You chump!' And flung it on the rubbish-dump.

Then summoning up all her power,

She beat the boy for half an hour,

Using (and nothing could be meaner)

The handle of a vacuum-cleaner. At ten p.m. or thereabout,

The little bean began to sprout.

By morning it had grown so tall You couldn't see the top at all.

Young Jack cried, 'Mum, admit it now!

It's better than a rotten cow!' The mother said, 'You lunatic! Where are the beans that I can pick? There's not one bean! It's bare as

'No, no!' cried Jack. 'You look up there!

Look very high and you'll behold Each single leaf is solid gold!' By gollikins, the boy was right!

Now, glistening in the morning light,
The mother actually perceives
A mass of lovely golden leaves!
She yells out loud, 'My sainted souls!
I'll sell the Mini, buy a Rolls!

Don't stand and gape, you little clot! Get up there quick and grab the lot!' Jack was nimble, Jack was keen.

He scrambled up the mighty bean. Up up he went without a stop, But just as he was near the top, A ghastly frightening thing occurred — Not far above his head he heard

A big deep voice, a rumbling thing That made the very heavens ring.

It shouted loud, 'FEE FI FO FUM

I SMELL THE BLOOD OF AN ENGLISHMAN!

Jack was frightened, Jack was quick, And down he climbed in half a tick. 'Oh mum!' he gasped. 'Believe you There's something nasty up our tree!

I saw him mum! My gizzard froze! A Giant with a clever nose!'

'A clever nose!' his mother hissed.

'You must be going round the twist!' 'He smelled me out, I swear it, mum!

ne smelled me out, i swear it, mum! He said he *smelled* an Englishman!' The mother said, 'And well he might!

I've told you every single night To take a bath because you smell,

But would you do it? Would you hell!

You even make your mother shrink

Because of your unholy stink!'

Jack answered, 'Well, if you're so

Why don't you climb the crazy bean.'

The mother cried, 'By gad, I will! There's life within the old dog still!' She hitched her skirts above her knee

And disappeared right up the tree.

Now would the Giant smell his mum?

Jack listened for the *fee-fo-fum*. He gazed aloft. He wondered when The dreaded words would come . . .

And then . . .

From somewhere high above the ground

There came a frightful crunching sound.

He heard the Giant mutter twice, 'By gosh, that tasted very nice. Although' (and this in grumpy tones)
'I wish there weren't so many bones.'
'By Christopher!' Jack cried. 'By gum!
The Giant's eaten up my mum!

He smelled her out! She's in his belly! I had a hunch that she was smelly.' Jack stood there gazing longingly

Upon the huge and golden tree. He murmured softly, 'Golly-gosh,

I'm going to have one every day.'

I guess I'll *have* to take a wash

If I am going to climb this tree Without the Giant smelling me. In fact, a bath's my only hope  $\dots$ 

He rushed indoors and grabbed the

He scrubbed his body everywhere. He even washed and rinsed his hair.

He did his teeth, he blew his nose And went out smelling like a rose. Once more he climbed the mighty The Giant sat there, gross, obscene, Muttering through his vicious teeth (While Jack sat tensely just beneath), Muttering loud, 'FEE FI FO FUM, RIGHT NOW I CAN'T SMELL ANYONE.' Jack waited till the Giant slept, Then out along the boughs he crept And gathered so much gold, I swear He was an instant millionaire. 'A bath,' he said, 'does seem to pay.

### **Revision Card - Noun Phrases**

### **How to extend Noun Phrases**

Add words before the <u>head noun</u>:
Those <u>beans</u> will be planted.
Those colourful magical <u>beans</u> will be planted.
Several of those colourful magical <u>beans</u> will be planted.



Add words after the noun:
Beans with brown spots will be planted.

Beans with brown spots and a curious glint will be planted.

Or you can do both at once:

Those colourful beans with brown spots will be planted.

### **How to build Expanded Noun Phrases**

Different types of words, phrases and clauses can all be used in an expanded noun phrase.

determiner adjectives

that terribly creepy abandoned castle



the <u>castle</u> with tall turrets covered in red like the tips of daggers

Prepositional phrase

The castle, which was hidden at the top of the beanstalk, loomed.

Relative clause

### **Changing Perceptions**

The bear roared.

The giant, angry bear with teeth like razors roared.

The badly injured bear with terrified eyes roared.

The merry bear, who was playing with his cubs, roared.

You can add detail which changes perception using expanded noun phrases.

These expanded noun phrases create very different images.

### **Expanded Noun Phrases**

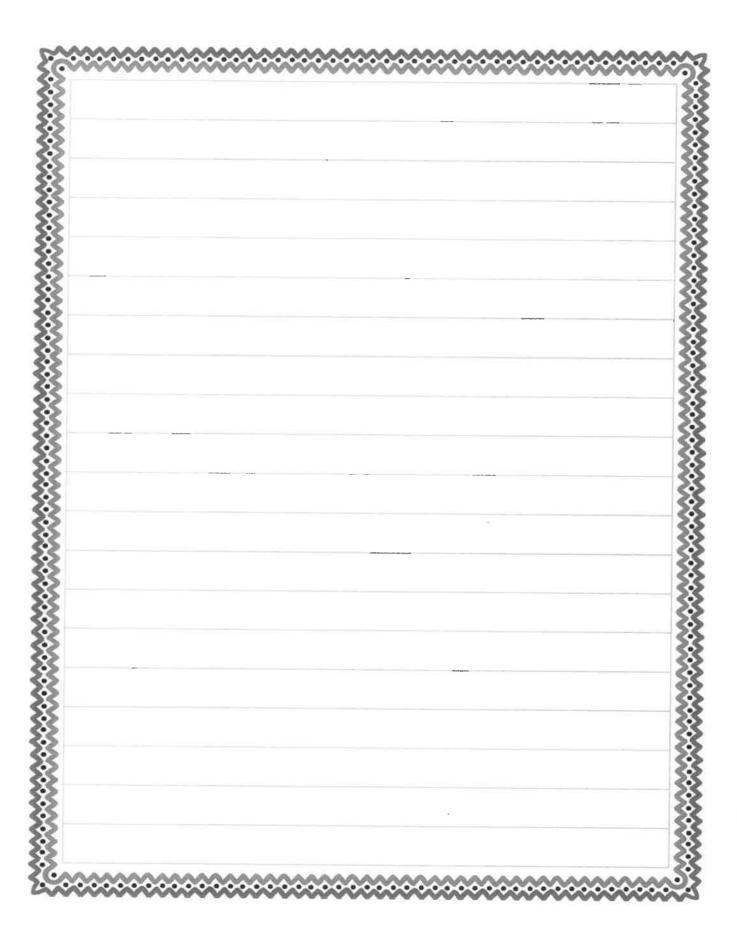
Rewrite each sentence, expanding the noun phrase so that it has more information.		
Jack sold the cow.		
Beans grew towards the sky.		
Jack scrambled up the beanstalk.		
Giant muttered through his teeth.		
Giant ate the mother.		
Leaves grew on the beanstalk.		
Mother climbed the beanstalk.		
Goose lays eggs.		

### **Planner**

### **Jack and The Beanstalk**

Write your version of the story here.

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### What to do today

IMPORTANT Parent or Carer – Read this page with your child and check that you are happy with what they have to do and any weblinks or use of internet.

### 1. Read a poem

- Read *Goldilocks and the Three Bears*. Read the poem twice once in your head and once out loud.
- Follow the words of the poem as you watch this animation: https://www.youtube.com/watch?v=IxHn2v3dz5E
- Which part of the animation do you think is most effective? Why?

### 2. Practise expanding noun phrases to change perceptions

- Use the Revision Card to remind yourself about noun phrases.
- Complete *Changing Perceptions*. Complete pairs of sentences for 1-6. Challenge yourself to complete 7-14 as well.

Well done! Share your sentences with a grown-up. Show them how you have expanded noun-phrases and created different meanings.

### 3. Now for some writing

- Pick a fairy-tale you know well and think about how you could make up a changed version.
- Use words and pictures to show your changed version on Fairy Tale Planner.
- Write a version of your changed fairy-tale.

### **Try the Fun-Time Extra**

- Watch this reading of another of Roald Dahl's Revolting Rhymes: <a href="https://www.youtube.com/watch?v=fbFMwH">https://www.youtube.com/watch?v=fbFMwH</a> CuJk
- Prepare, record and share your own reading of Goldilocks and the Three Bears.

# By Roald Dahl **Goldilocks and the Three Bears**

Then dad cries, "Golly-gosh! Gee-whizz! Should never have been put on sale. With maybe toast and marmalade, One place for you and one for dad, Delicious porridge, steaming hot, Now just imagine how *you'd* feel If you had cooked a lovely meal, Why loving parents cannot see Had I the chance I wouldn't fail To clap young Goldilocks in jail. Fresh coffee in the coffee-pot, This famous wicked little tale About a brazen little crook. That this is actually a book Another for your little lad. The table beautifully laid, It is a mystery to me

No proper wife would dare to question When men are seldom at their prime. Comes sneaking in your empty house. Three bowls brimful of porridge oats. She looks around. She quickly notes It also helps your bowels to move." And while still standing on her feet, She grabs a spoon and starts to eat. No sooner are you down the road Broke in and gobbled up the lot? is good for people on the whole If you had made this lovely meal It makes your appetite improve Than Goldilocks, that little toad Above all not at breakfast-time That nosey thieving little louse, I say again, how would you feel And some delinquent little tot Such a sensible suggestion,

"Oh dear! Oh heavens! What a shame!" Passed down to you on grandma's side. But your most special valued treasure, You are of course a houseproud wife, Bought at some famous auction sale. And crunch! It bursts beyond repair. Is one small children's dining-chair, She doesn't care, she doesn't mind, Like gilded cherubs wearing wings, And now she plonks her fat behind A nice girl would at once exclaim, The piece that gives you endless You have collected lovely things But Goldilocks, like many freaks, Upon this dainty precious chair, And all your happy married life And furniture by Chippendale It is in fact your joy and pride, Does not appreciate antiques. Elizabethan, very rare. pleasure,

He adds, "An early morning stroll

Now comes the most distressing bit.

But wait! That's not the worst of it!

Oh cripes! How hot this porridge is!

Let's take a walk along the street

Until it's cool enough to eat."

She bellows, "What a lousy chair!" Not Goldie. She begins to swear. That luckily you've never heard. (I dare not write it, even hint it. And uses one disgusting word

You'd think by now this little skunk Nobody would ever print it.)

Would have the sense to do a bunk.

But no. I very much regret

Deciding she would like a rest, She hasn't nearly finished yet.

She says, "Let's see which bed is best."

Upstairs she goes and tries all three.

(Here comes the next catastrophe.)

Most educated people choose

Before they clamber into bed.

To rid themselves of socks and shoes

But Goldie didn't give a shred.

Her filthy shoes were thick with grime,

And mud and mush and slush and

say once more, what would you think Was something that a dog had done. Worse still, upon the heel of one

If all this horrid dirt and stink

Was smeared upon your eiderdown

(The famous story has no clues By this revolting little clown?

to show the girl removed her shoes.)

Oh what a tale of crime on crime!

Let's check it for a second time.

Crime One, the prosecution's case:

She breaks and enters someone's place.

Crime Two, the prosecutor notes:

Crime Three, she breaks a precious She steals a bowl of porridge oats.

Belonging to the baby Bear. chair

Crime Four, she smears each spotless sheet

With filthy messes from her feet.

shout, "Goody-good! Hooray! Hurrah!" "Thank goodness that she got away!" "Ten years hard labour in the clink!" "Poor darling Goldilocks!" they say, A judge would say without a blink, "Oh daddy!" cried the Baby Bear, the little beast gets off scot-free, "My porridge gone! It isn't fair!" but in the book, as you will see, while tiny children near and far Myself! think I'd rather send Young Goldie to a sticky end.

"Then go upstairs," the Big Bear said, You'll have to eat her up as well. "Your porridge is upon the bed. But as it's inside mademoiselle,

### **Revision Card – Noun Phrases**

### **How to extend Noun Phrases**

Add words before the <u>head noun</u>:
Those <u>beans</u> will be planted.
Those colourful magical <u>beans</u> will be planted.
Several of those colourful magical <u>beans</u> will be planted.



Add words after the noun:

Beans with brown spots will be planted.

Beans with brown spots and a curious glint will be planted.

Or you can do both at once:

Those colourful beans with brown spots will be planted.

### **How to build Expanded Noun Phrases**

Different types of words, phrases and clauses can all be used in an expanded noun phrase.





the <u>castle</u> with tall turrets covered in red like the tips of daggers

Prepositional phrase

The <u>castle</u>, <u>which was hidden at the top of the beanstalk</u>, loomed.

Relative clause

### **Changing Perceptions**

The bear roared.

The giant, angry bear with teeth like razors roared.

The badly injured bear with terrified eyes roared.

The merry bear, who was playing with his cubs, roared.

You can add detall which changes perception using expanded noun phrases.

These expanded noun phrases create very different images.

### **Changing Perceptions**

Write two new versions for each of these sentences with expanded noun phrases. Make opposite images with your pair of noun phrases. The first has been done for you.

1. The children ran to the cottage.

The cruel children with axes and hammers, who had already smashed up three homes in the wood, ran to the cottage.

The terrified children with no-one left to help them, ran to the cottage.

- 2. Cinderella mopped the floor.
- 3. The prince rode his steed.
- 4. The boy laughed.
- 5. Rapunzel called down from the tower.
- 6. The witch hid in the bushes.
- 7. The wolf lay under the covers.
- 8. The giant shouted.
- 9. The princess sang.
- 10. The Queen gave Snow White an apple.
- 11. The woodcutter raised his axe.
- 12. The King sat in the throne.
- 13. The pigs skipped down the lane.
- 14. The baby slept peacefully.

### **Fairy Tale Planner**

3. How does the plot develop	6. What happens in the end?
2. Think about how the story starts	5. How does the problem resolve itself?
1. Introduce the setting and characters – how are these changed from the original?	4. What is the climax of the story?

### **Changed Fairy Tale**

Write your changed fairy-tale here.

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