

Name:

Date:

Cinderella Maths Challenge



The characters in the story of Cinderella had to solve some tricky problems. Do you think you could you have helped them? Read the questions in this booklet and see if you can work out the answers. There's lots of space on each page for you to make jottings and draw pictures to help you.

Practice question

Here are 12 pairs of glass slippers.



How many glass slippers are there altogether?

Write the total.

slippers

When Cinderella scrubbed the floor she used **10 buckets** of water. Each bucket held **5 litres of water**.



1. How many litres of water did Cinderella use altogether?

litres

The ugly sisters have been counting their savings.

One of the sisters has saved 29p. The other sister has saved 21p.

2. How much money have they saved altogether?

$$29\text{p} + 21\text{p} = \square$$

?

The Fairy Godmother needs help.

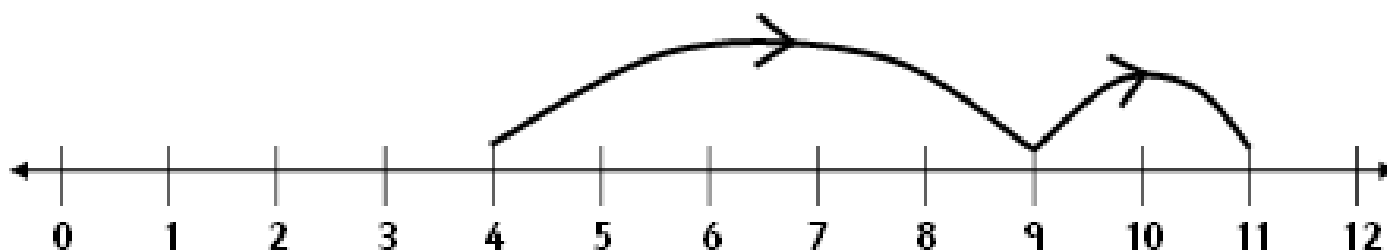


3. Can you fill in the missing numbers in this number sequence?

45	47		51	53	55		59	61	
----	----	--	----	----	----	--	----	----	--

Look at this number line.

It shows the sum that the prince did.



4. Can you tick (\checkmark) the sum that the prince did?

$$4 + 6 + 1 = 11$$

$$4 + 5 + 2 = 11$$

$$4 + 4 + 6 = 11$$

$$4 + 3 + 7 = 11$$

Cinderella's Fairy Godmother gave her some money to take to the ball.



5. How much money did Cinderella take to the ball?

--

pence

Cinderella went to the ball at 7 o' clock in the evening.



She left the ball at 12 o' clock, midnight.



6. How many hours was Cinderella at the ball?

hours

Cinderella’s footmen were different heights.



140cm



160cm



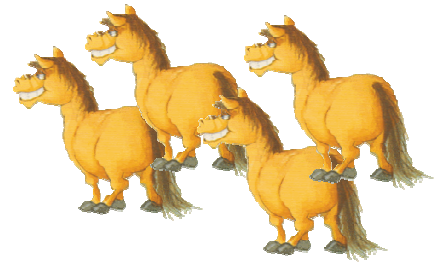
200cm

7. What is the total height of all the footmen?

Show how you work it out in this box.

cm

8. Can you help the horses to match each addition to a multiplication.
One is done for you.



$$10 \times 4$$

$$10 + 10 + 10 + 10$$

$$2 \times 4$$

$$2 + 2 + 2 + 2$$

$$5 \times 4$$

$$4 \times 4$$

$$7 + 7 + 7 + 7 + 7$$

$$5 \times 5$$

$$4 + 4 + 4 + 4$$

$$7 \times 5$$

45 went to the ball.

6 people left the ball.

Then 5 more people left the ball.

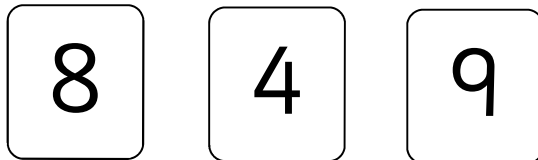
9. Tick (\checkmark) the number of people who left the ball.

9

11

8

Look at these digits.



10. Cinderella needs to use all the digits to make a number nearest to **900**. Can you help?

--	--	--

The ugly sisters have been talking to each other.



Gertrude

I weigh **120 kgs**
and I have **grey**
eyes.



Rosebud

I weigh **100 kgs**
and I have **blue**
eyes.

13. Can you put the right names in the right boxes?

is heavier
than 110kgs.

is **not** heavier
than 110kgs.

has grey eyes

does **not** have grey
eyes

Cinderella is stuck. She must find two letters that have a line of symmetry. Can you help?

14. Draw a ring around the letters that have a line of symmetry.

You may use a mirror.

F

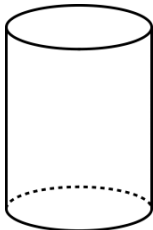
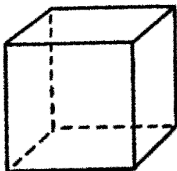
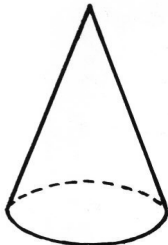
G

P

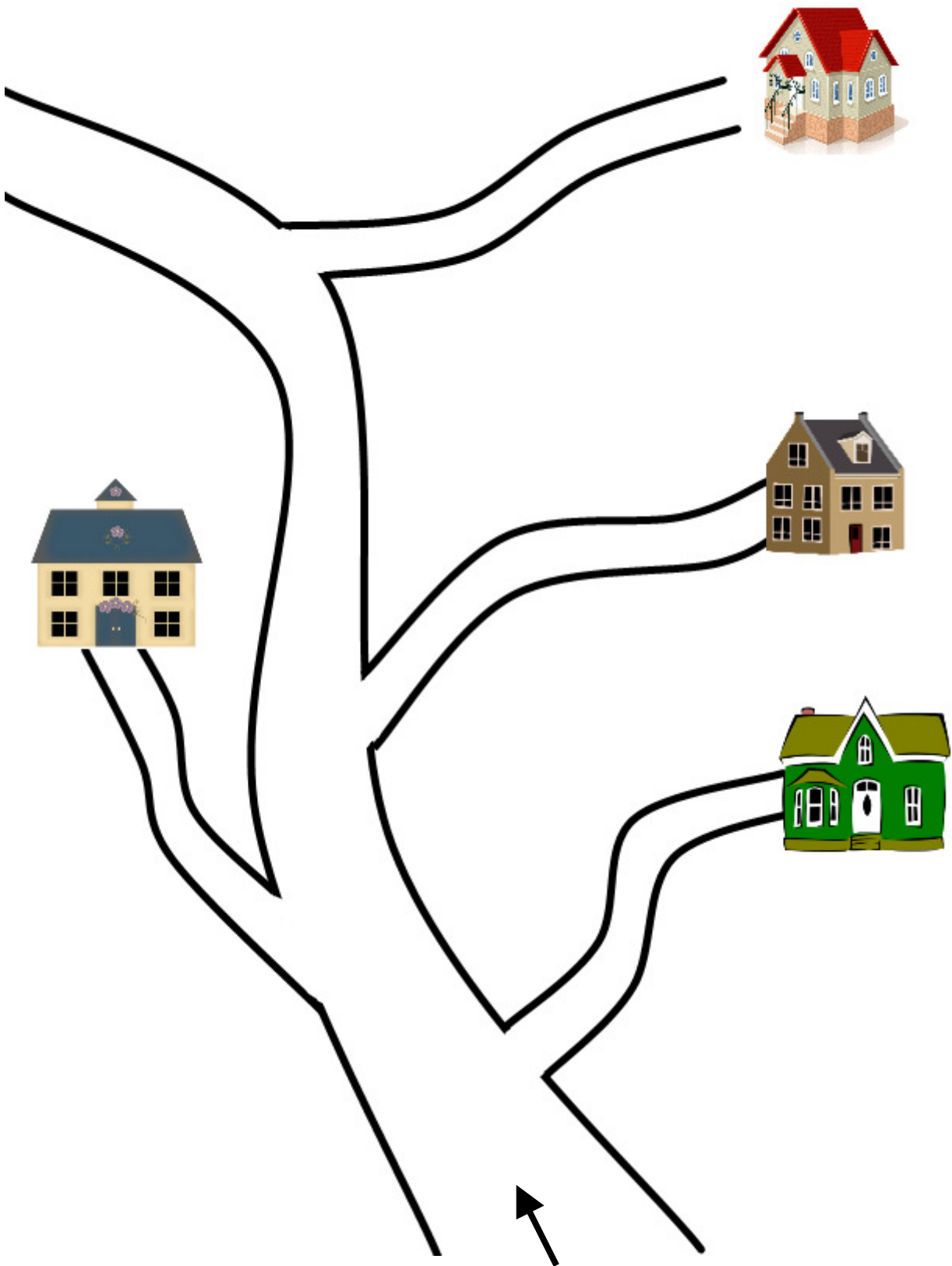
E

D

15. Can you help the prince to write the missing numbers in the two empty boxes?

	number of square faces	number of triangular faces	number of circular faces
cylinder 	0	0	
cube 		0	0
cone 	0	0	

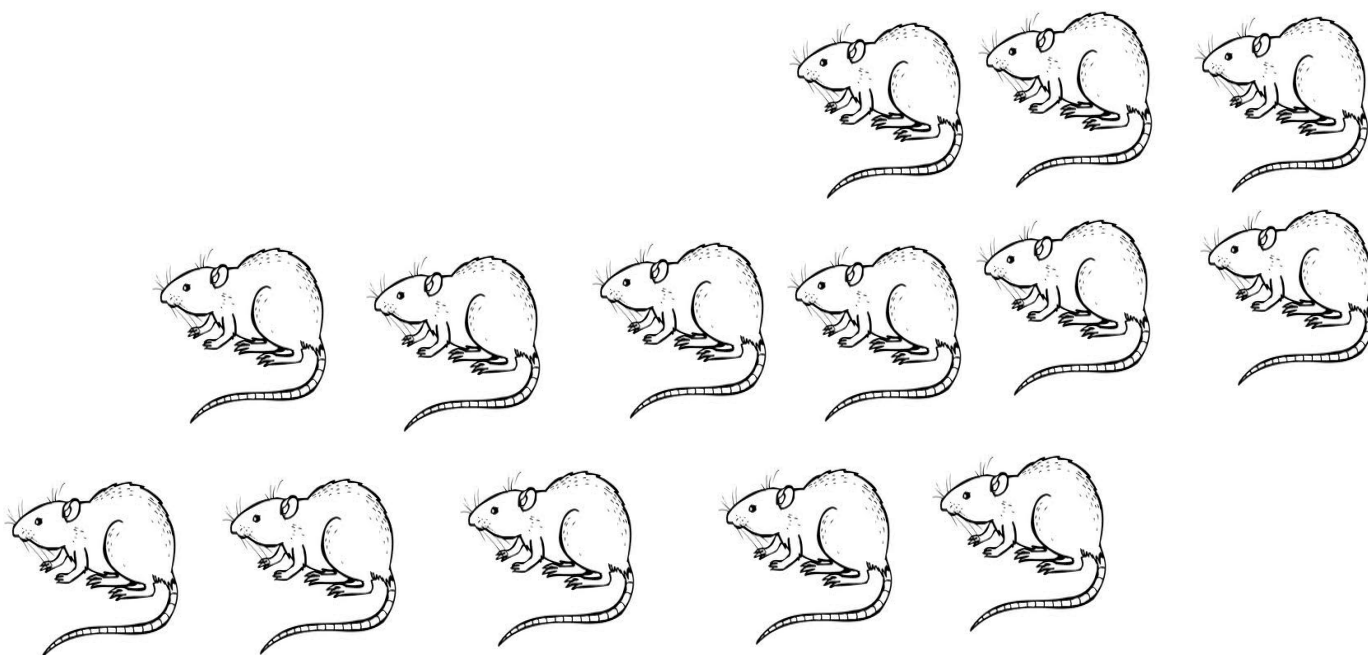
This is a map of the street where the ugly sisters lived.



16. The ugly sister's house is **2nd** on the **right**.

Tick (✓) it.

The Fairy Godmother found 14 rats but she only used **half** of them.



17. If she used **half** the rats, how many did she use?

--

Rats.

18. Can you help Cinderella to write the missing number in each box?

28 $\xrightarrow{\text{is 1 less than}}$

28 $\xrightarrow{\text{is 10 less than}}$

19. Can you show Cinderella the way back to the palace by writing the missing numbers on the number grid?



	1	2	3	4	5	6	7	8	9
		12	13	14	15	16	17	18	19
20		22	23	24	25	26	27	28	29
30		32					37	38	39
40				44	45		47	48	49
50	51	52	53	54	55		57	58	59
60	61	62	63	64	65		67	68	69
70	71	72	73	74	75				
80	81	82	83	84	85	86	87	88	
90	91	92	93	94	95	96	97	98	

