

Name:

Date:

## KS1 Christmas Maths Challenge



Santa Claus and his elves are all busy preparing for the big night!

They have had lots of jobs to do and problems to solve.

Can you help them out by solving these Christmas maths problems?

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1. Harry Elf needed to count forwards in **tens**.

What were his next 4 numbers after **21**?

21				
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2. Santa had a piece of wood **170cm** long.

Harry Elf had to saw off **80 cm**. He then had to work out how much wood was left.

Harry knew that  **$17 - 8 = 9$**

Help Harry to use this fact to work out how much wood was left.

$$17 - 8 = 9$$

so

170cm	-		cm	=		cm
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3. Santa has asked Eddie Elf to continue the number patterns below.

Can you help?



0

2

4

0

3

6

0

4

8

5

10

15

20

30

40

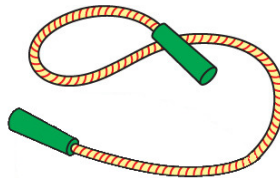
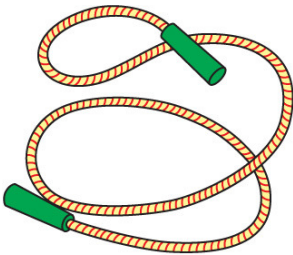
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4. Santa has asked Eric Elf to make **two** skipping ropes.

One skipping rope must measure **17cm** and the other must measure **9cm**.



How much rope will Eric need altogether?



cm
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5. Santa made **51** dolls.  
He delivered **8** dolls.

Eric must work out how many dolls are left.  
Can you help?



dolls
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?

6. Ella Elf must work out the answers to these calculations before Santa arrives to fill his sleigh with presents.

Can you help?



$$38 + 9 = \square$$

$$23 + 40 = \square$$

$$49 - 6 = \square$$

$$68 - 30 = \square$$

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7. Now try these.

$$23 + 36 = \square$$

$$97 - 34 = \square$$

$$56 + 24 = \square$$

$$78 - 39 = \square$$

?

Santa gave Eddie Elf these number riddles to solve.

Can you help?



8.



I think of a number, then subtract **21**.

My answer is **20**.

What was my number?

9.

I think of a number, then subtract **19**.

My answer is **54**.

What was my number?



On Christmas Eve, Santa must deliver 6 pairs of gloves.



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Help Harry Elf to work out how many gloves will be delivered altogether.

10.

6 twos are

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Four of Santa's reindeer have 5 spots each.



Help Harry Elf to work out how many spots altogether.

11.

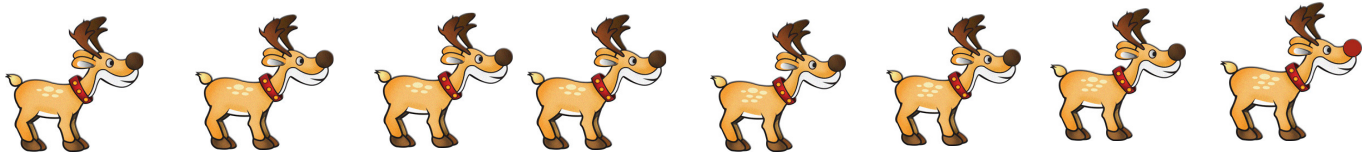
4 fives are

12. Santa has **eight** reindeer.  
It is Eric Elf's job to feed them.



Eric has **24** carrots.

How many carrots should each reindeer get?

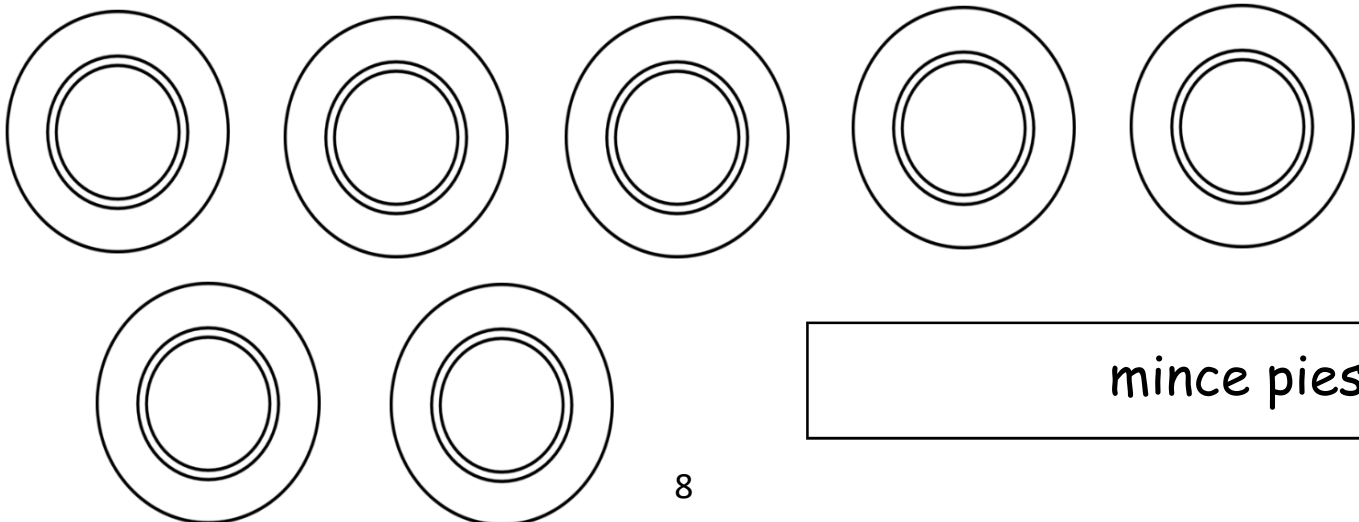


carrots

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13. Santa asks Eric to share **35** mince pies between **7** plates.

How many mince pies should Eric put on each plate?



mince pies



14. Santa has given little Evan Elf some homework to do over the Christmas holidays.

?



Evan's homework is all about fractions and he's a bit stuck. Can you help?

Eli's first job is to draw circles round:

one third

one half

three quarters

$$\frac{1}{4}$$

$$\frac{2}{4}$$

$$\frac{1}{2}$$

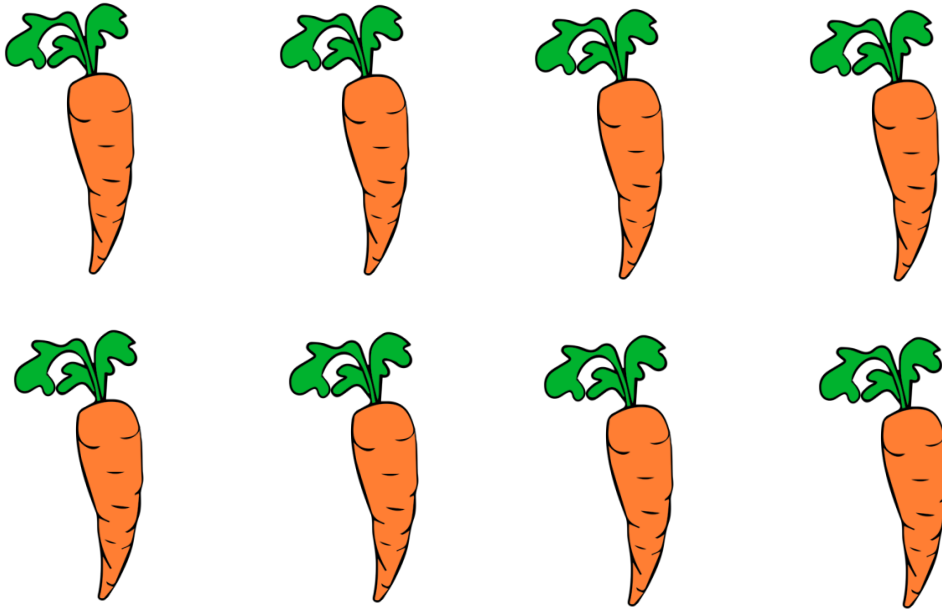
$$\frac{1}{3}$$

$$\frac{3}{4}$$

?

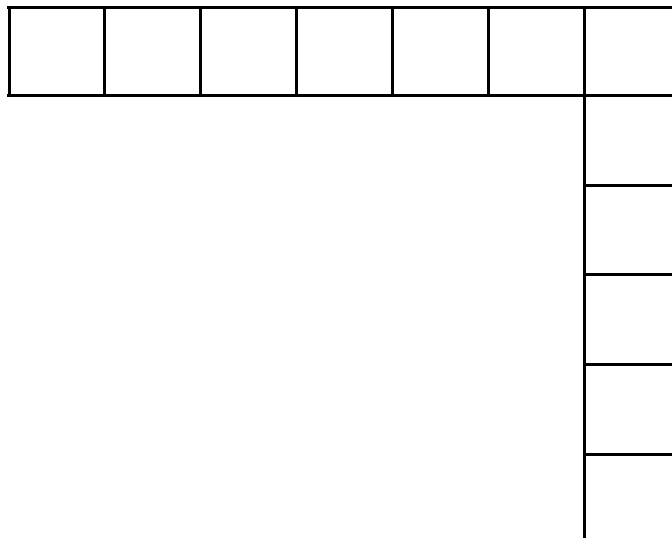


15. Next, Evan must draw a ring round  $\frac{1}{4}$  of the carrots.



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16. Finally, Evan must shade  $\frac{3}{4}$  of this shape.



17. Santa has asked Ella Elf what she thinks the best estimate would be for the length of his sleigh.

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Help Ella by drawing a circle round the best **estimate**.



5 metres

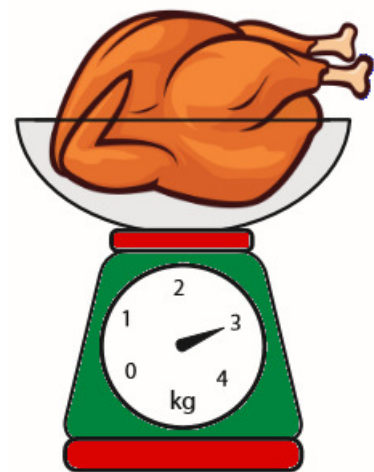
50 metres

500 metres



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18. Ella must find out how much the Christmas turkey weighs. Can you help by writing down the measurement shown on the scales?



	kg
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19. Santa has sent Ella to the shops to buy a bag of potatoes.

The potatoes cost **69p**.



Ella gave the shopkeeper £1.00.

How much change did she get?

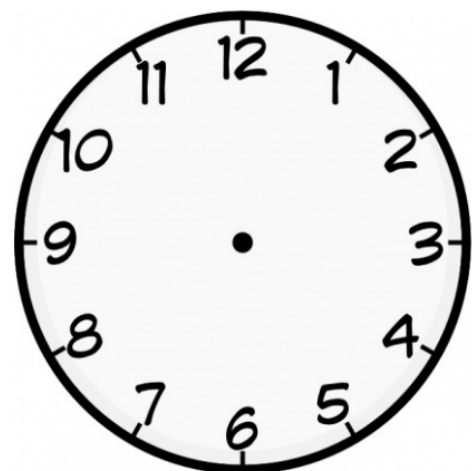
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20. It took Santa **45 minutes** to load his sleigh with presents.

He started loading at **7 o'clock**.

Ella must draw the hands on the clock to show what time Santa finished loading his sleigh.

Can you help?



21. Santa has asked Harry Elf to find all the **2D** shapes on the surfaces of the **3D** shapes.

Can you help him?

One has already been done.

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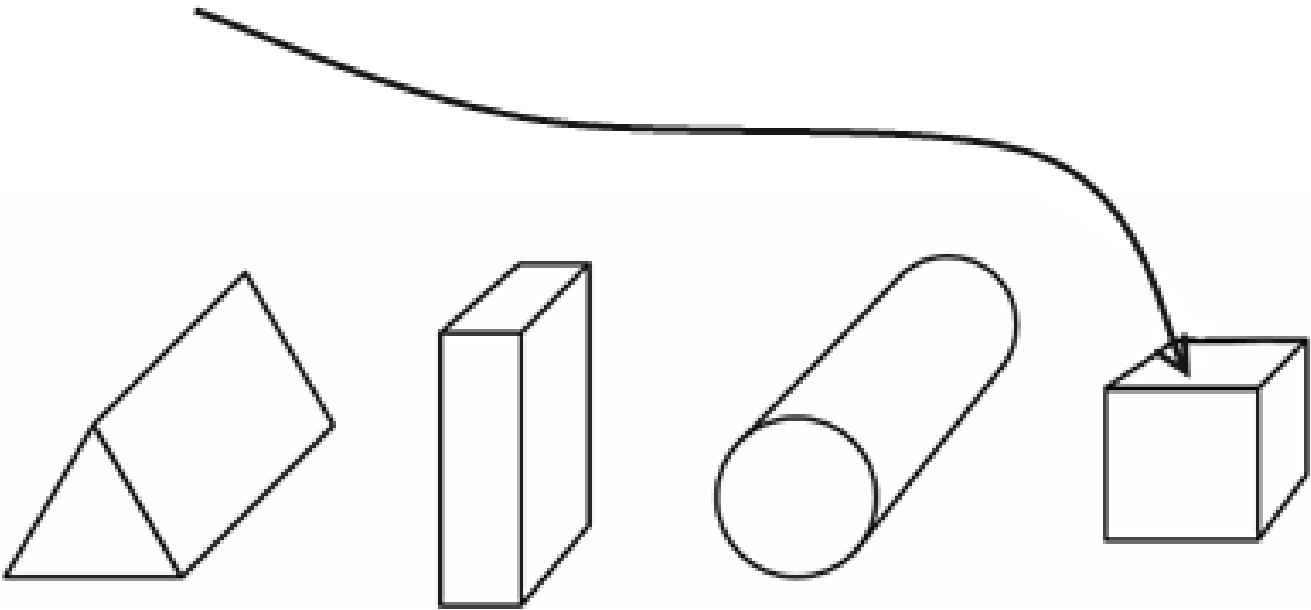


square

rectangle

triangle

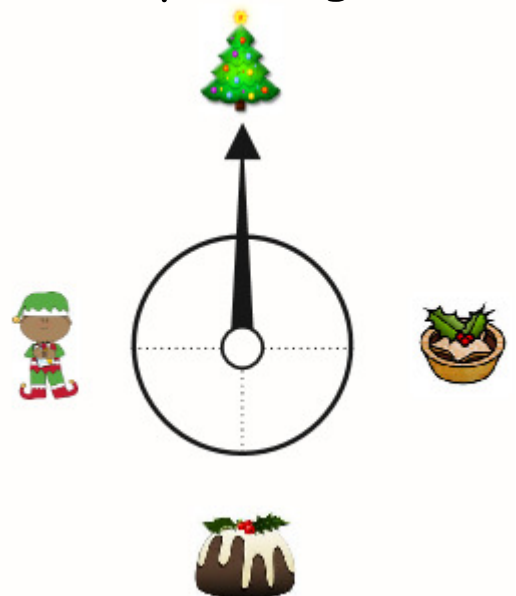
circle



22. The spinner below is pointing to the Christmas tree. Harry must work out how many **right angles** the spinner needs to turn so that it is pointing to the Christmas pudding.

Can you help?

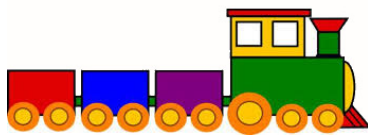
right angles



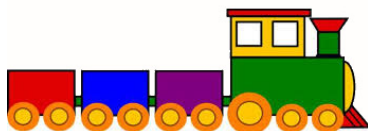
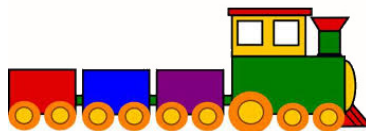
23. Santa has asked Eddie Elf to do a stock take.

Can you help Eddie by writing the numbers in the table below?

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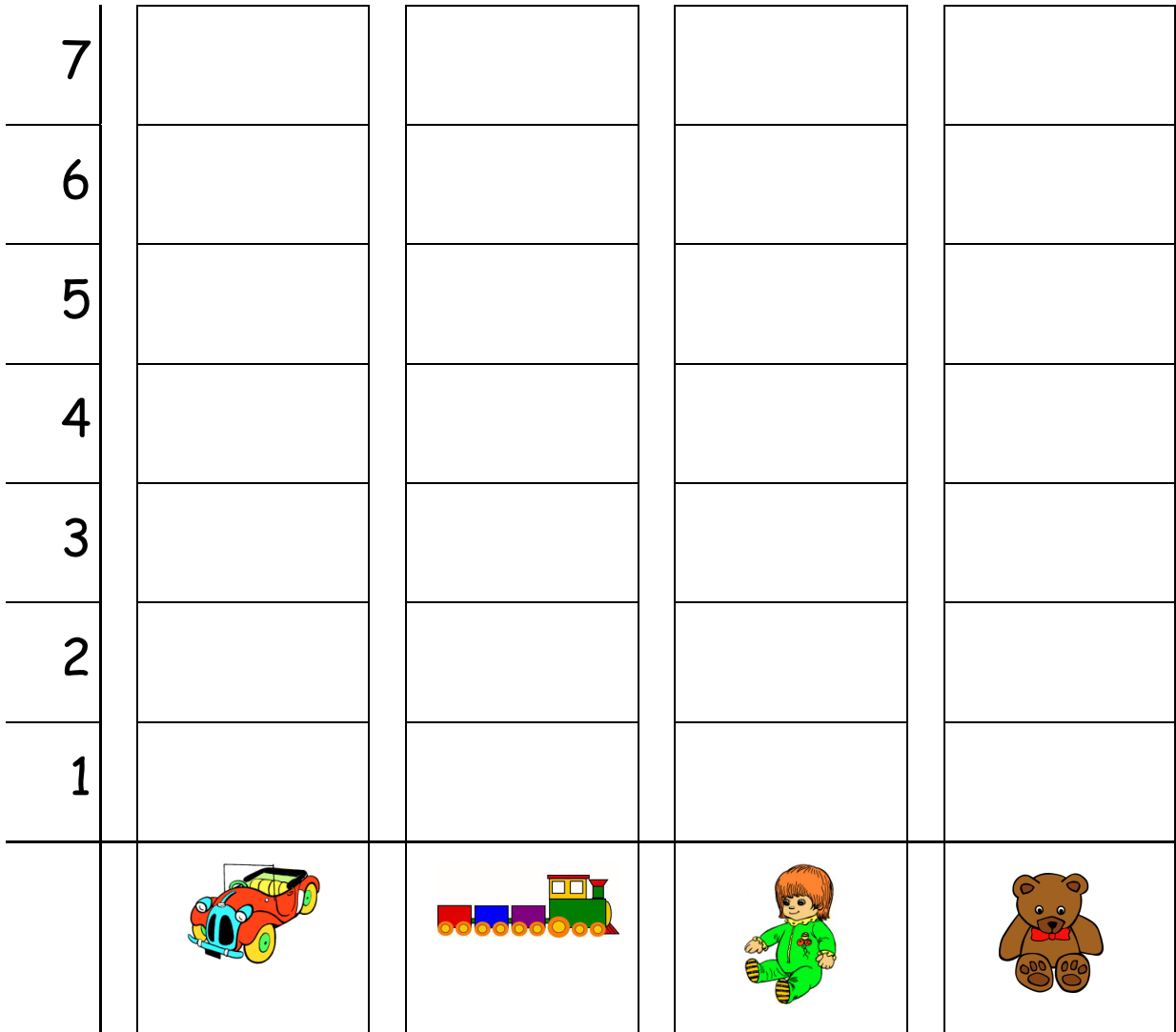
teddies	
dolls	
toy cars	
toy trains	



24. Eddie Elf must now make a graph to show the results of his stock take.

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Can you help by colouring in the correct number of rectangles on the graph?



25. Now help Eddie to answer these questions:

A) Which toy is there most of? \_\_\_\_\_

B) How many toys are there altogether? \_\_\_\_\_