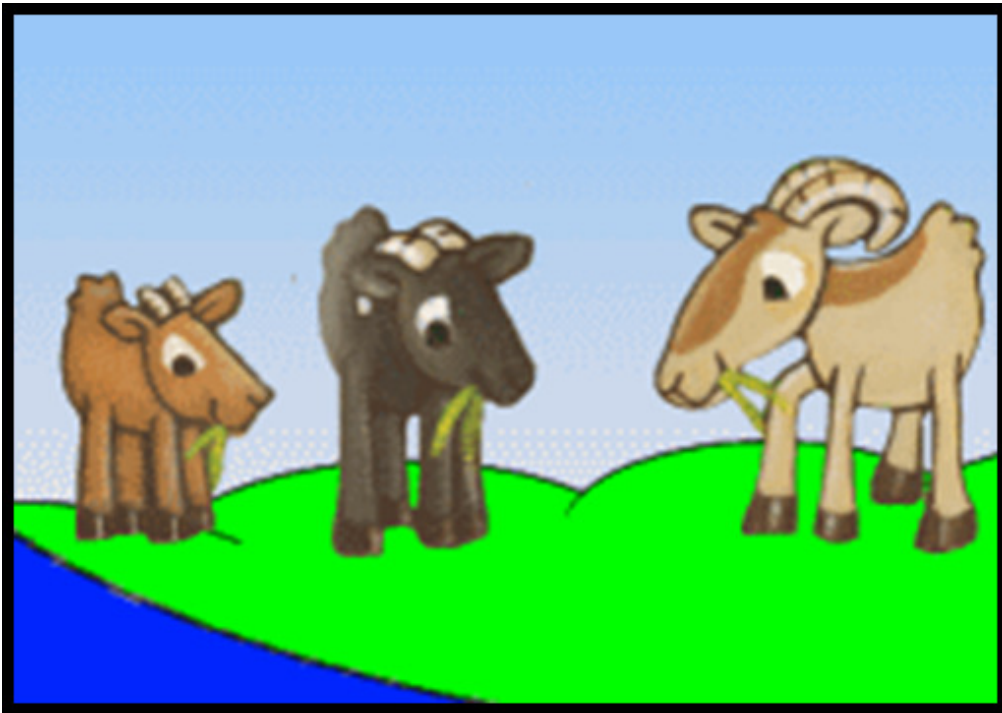Name: Date:
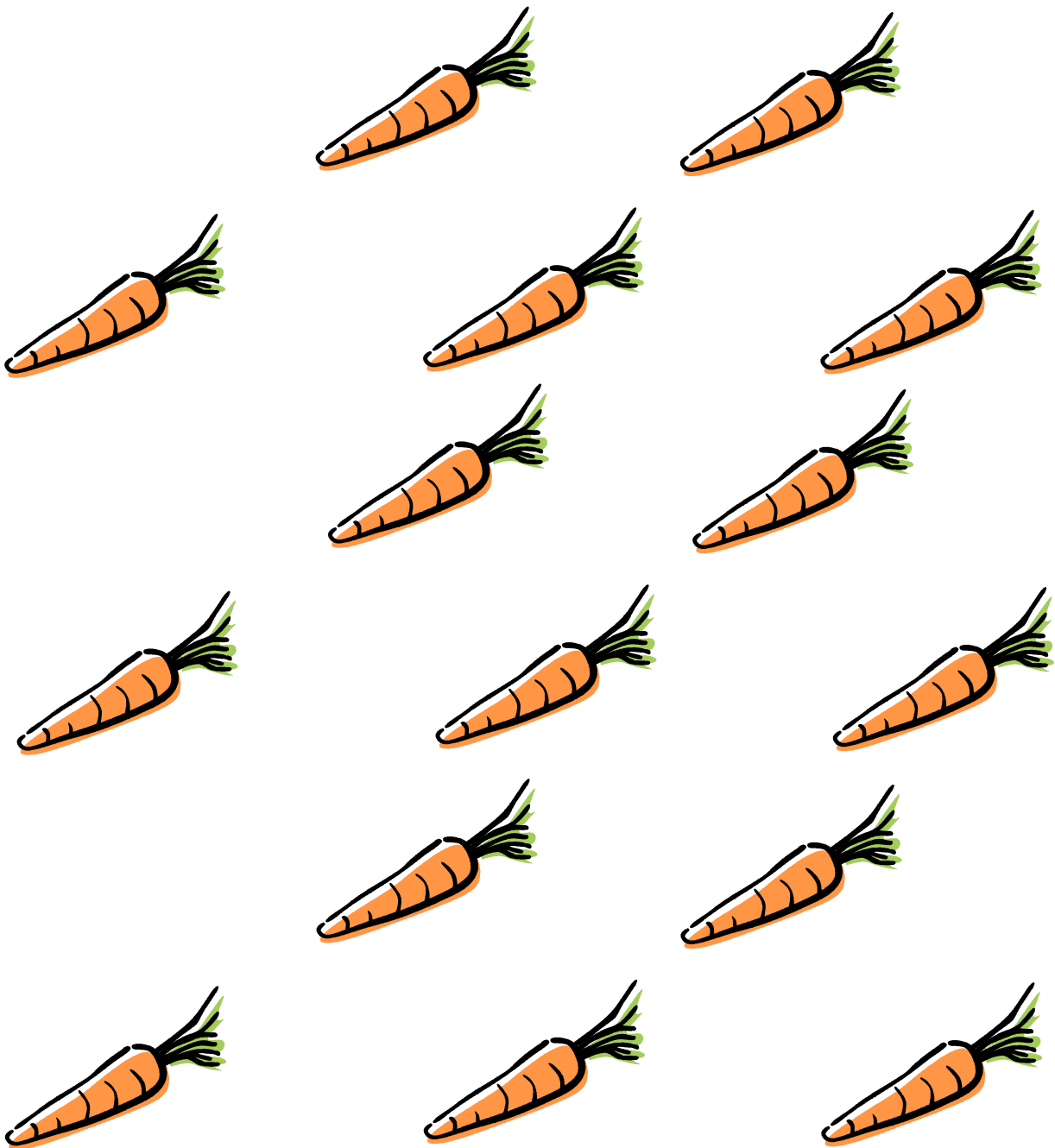
Billy Goats Gruff
Maths Challenge

The Billy Goats Gruff had to solve some tricky maths problems during their adventures with the Troll. Could you have helped him? Read the questions in this booklet and see if you can work out how to solve the problems. There's lots of space on each page for you to make jottings and draw pictures to help you.

Practice question

The Billy Goats Gruff like to eat carrots but they have to be able to count them before they can eat them.
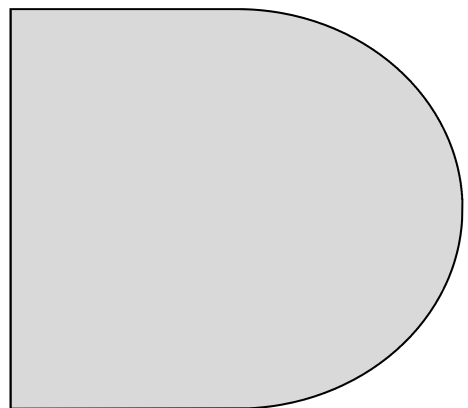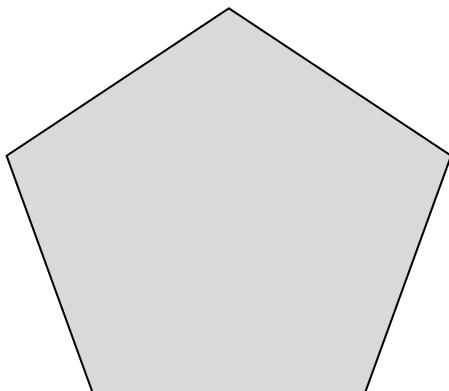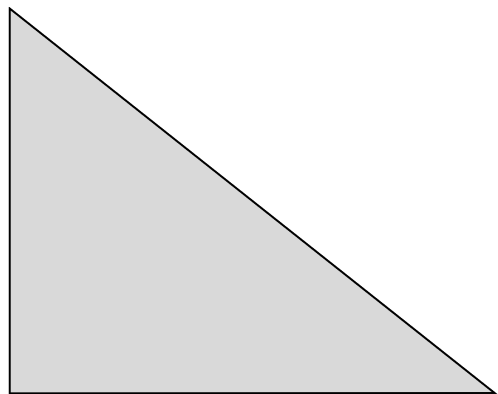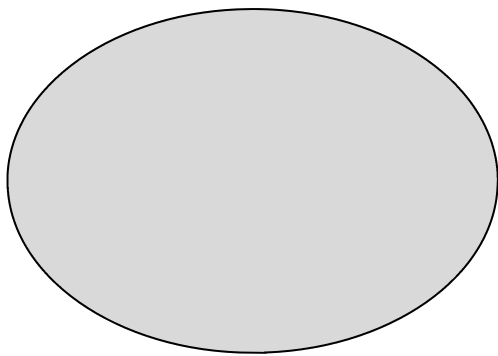
Can you count the carrots for them?
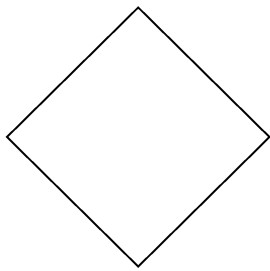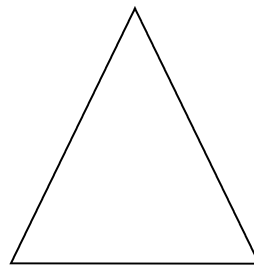
Write the total.

| carrots |

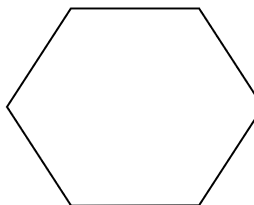The bridge that the Billy Goats Gruff had to cross was covered in shapes.

The Billy Goats Gruff were only allowed to step on the shapes with **2 long** sides and **2 short** sides.

1. Tick (√) the shape with **2 long** sides and **2 short** sides.

2. Write four **different** numbers to make these correct.

◇ **+** △ **=** 19

□ **+** ⬡ **=** 19

Big Billy Goat Gruff wants to buy **one** apple on his way to the bridge.

He has **20p**

apple **32p**

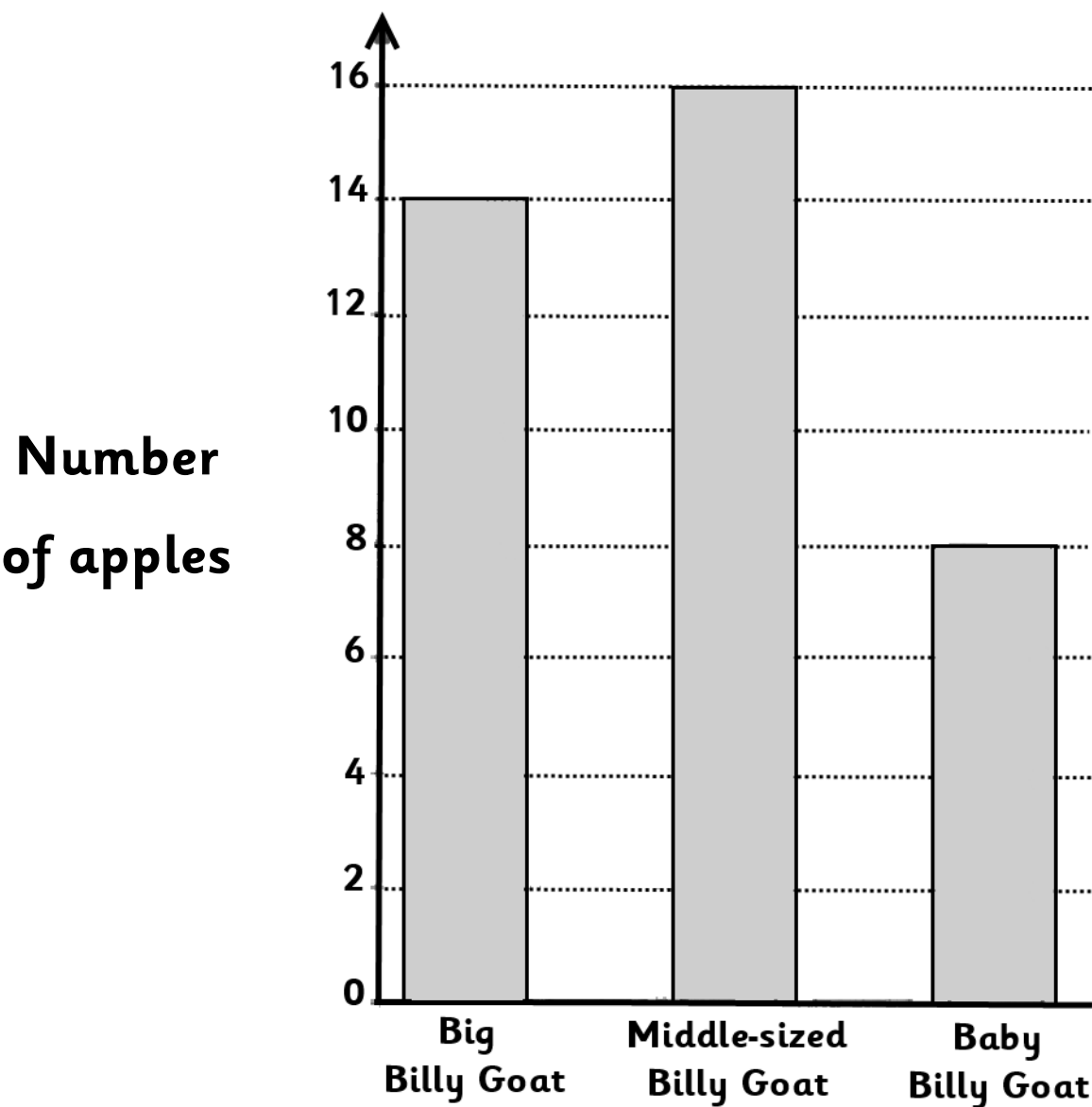**3.** How much more money does he need?

⬚ p

On their travels the Billy Goats Gruff ate all the apples on an apple tree.

They made a graph of the apples they ate.

Number

of apples

Big
Billy Goat

Middle-sized
Billy Goat

Baby
Billy Goat

4. How many apples did Baby Billy Goat Gruff eat?

| apples |

5. What was the **total** number of apples on the apple tree?

| apples |

Baby Billy Goat Gruff likes to eat apples and carrots. He eats them for a total of two and a half hours a day.

He spends **80** minutes eating carrots.

6. How many **minutes** does he spend eating apples?

minutes

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7. Baby Billy Goat Gruff has got a sum to do at school. Can you help him to put in the missing digits to make this correct?

| | 0 | + | 3 | | = | 5 | 4 |

8. Match each addition to a multiplication.

One is done for you.

5 x 2

5 + 5 + 5 + 5

2 x 3

2 + 2 + 2

5 x 4

6 + 6 + 6 + 6 + 6

3 x 4

5 x 5

3 + 3 + 3 + 3

6 x 5

Baby Billy Goat Gruff's brothers sometimes tie him with a rope to stop him wandering off. The rope is 9 metres long.

Big Billy Goat Gruff decides to cut the rope into 3 **equal** length.

9. How long is each length?

Show how you worked it out here.

	metres

10. Can you help Middle Sized Billy Goat Gruff find the missing number?

$$\boxed{} + 7 = 79$$

Sometimes Baby Billy Goat Gruff eats apples for a snack, sometimes he eats pears and sometimes he eats carrots.

	morning	afternoon
Monday	apple	carrot
Tuesday	pear	apple
Wednesday	carrot	pear
Thursday	apple	pear
Friday	apple	carrot

11. On how many afternoons did he eat carrots?

afternoons

The farmer stores his apples for the goats in baskets. There are 10 apples in each basket and 3 more.
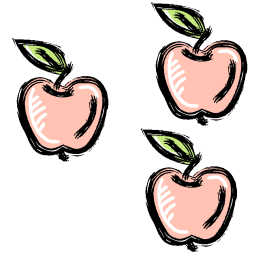

10 apples   10 apples   10 apples

12. How many apples are there **altogether?**

apples

When the goats go on their walk to the bridge, they count their steps. They walk 992 steps and then 10 more.

13. How many steps did they walk **altogether?**

992 $\xrightarrow{\textbf{10} \text{ more}}$

Middle-sized Billy Goat Gruff has been talking to
Big Billy Goat Gruff.

I weigh 190 kgs and I like apples.

I weigh 210 kgs and I don't like apples.

Middle-sized
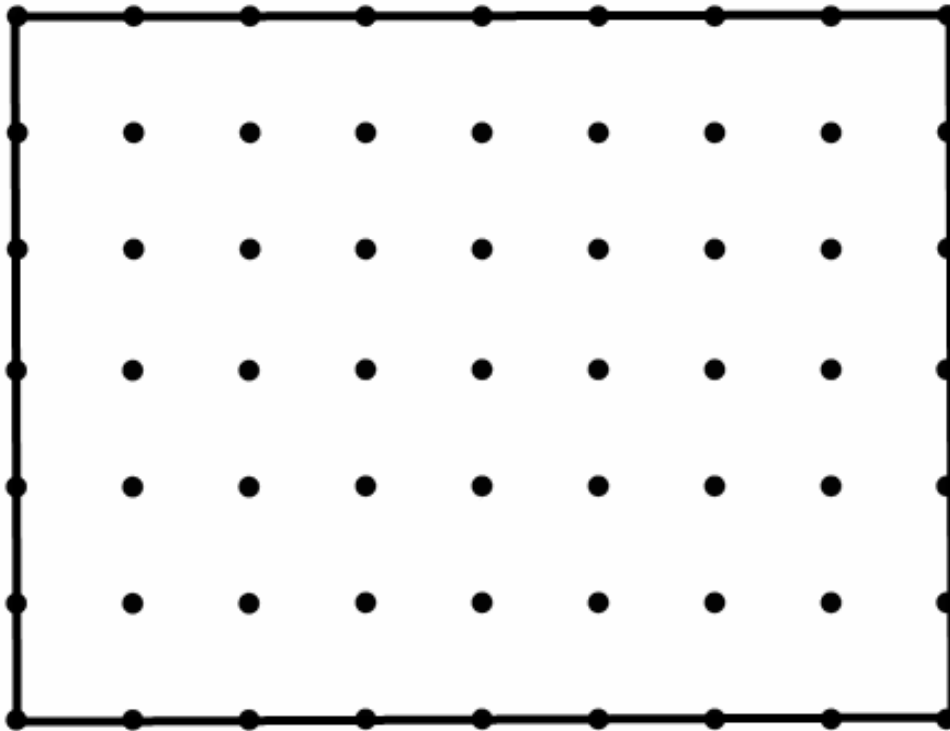
Billy Goat Gruff

Big Billy Goat Gruff

14. Can you put the right names in the correct boxes
on the diagram?

	is heavier than 200kgs.	is **not** heavier than 200kgs.
likes apples		
does **not** like apples		

15. Can you help the Billy Goats Gruff to divide this shape into four equal parts?

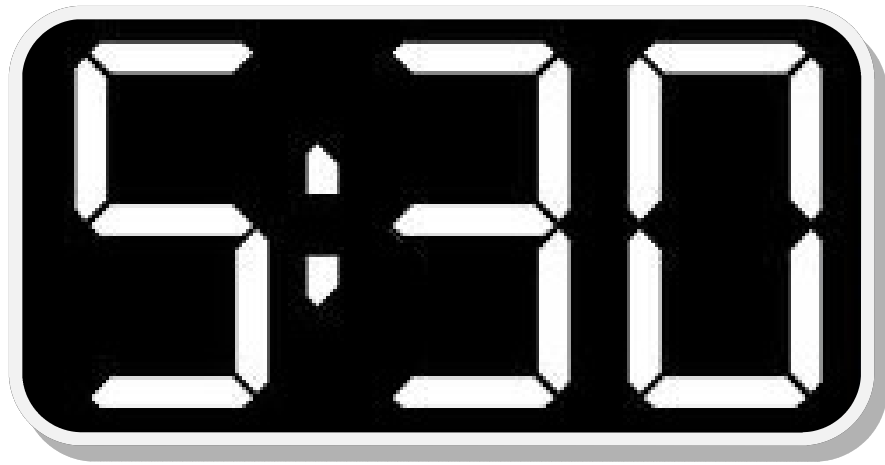Use a ruler.

The Billy Goats Gruff need to buy **20** pears?

The pears are sold in bags of **5**.

5 pears

16. How many bags do they need to buy?
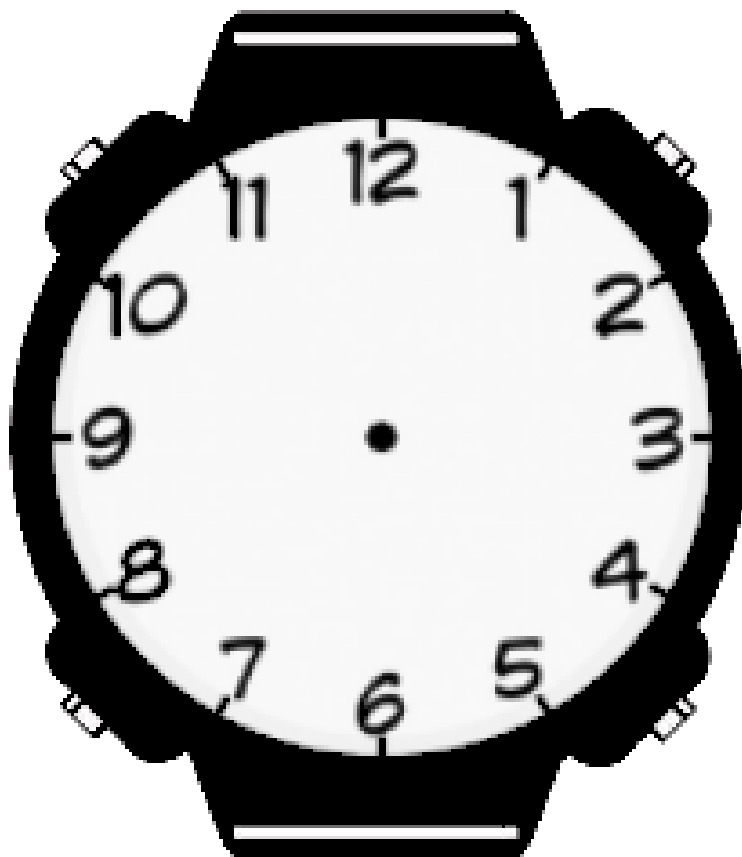
bags

Middle-sized Billy Goats Gruff's clock shows this time.

5:30

Big Billy Goats Gruff's watch shows this time.

17. Can you draw the hands on the watch?

18. Help the Billy Goats Gruff to write the answer.

$$1000 - 134 \ =$$