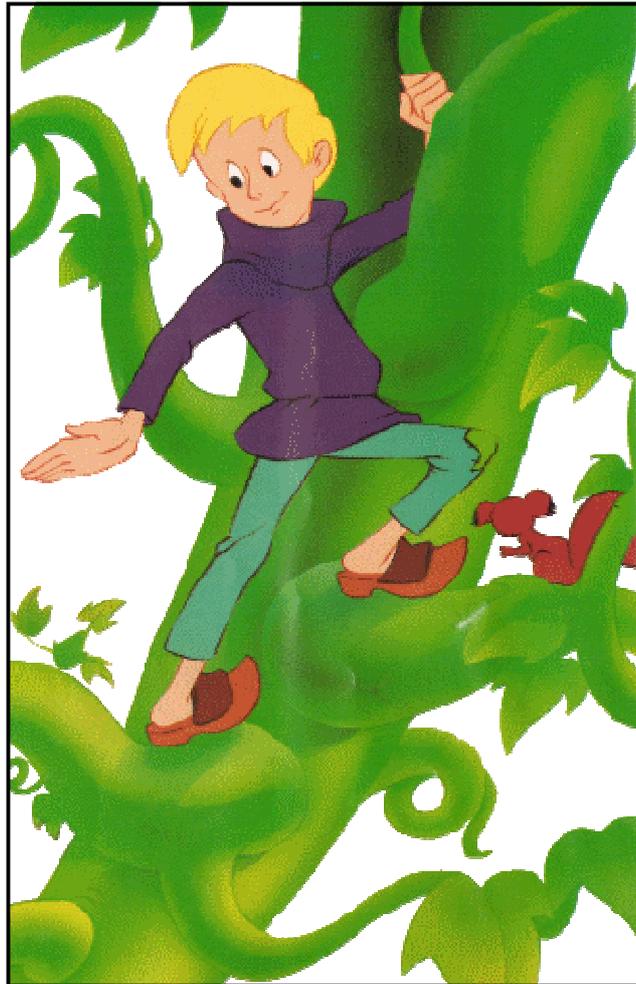


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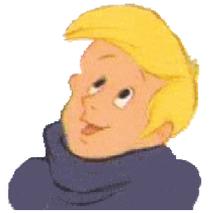
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Jack and the Beanstalk Maths Challenge



During Jack's adventures with the giant, he had to solve some tricky problems. Imagine that you were with Jack during his adventures. Could you have helped him? 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

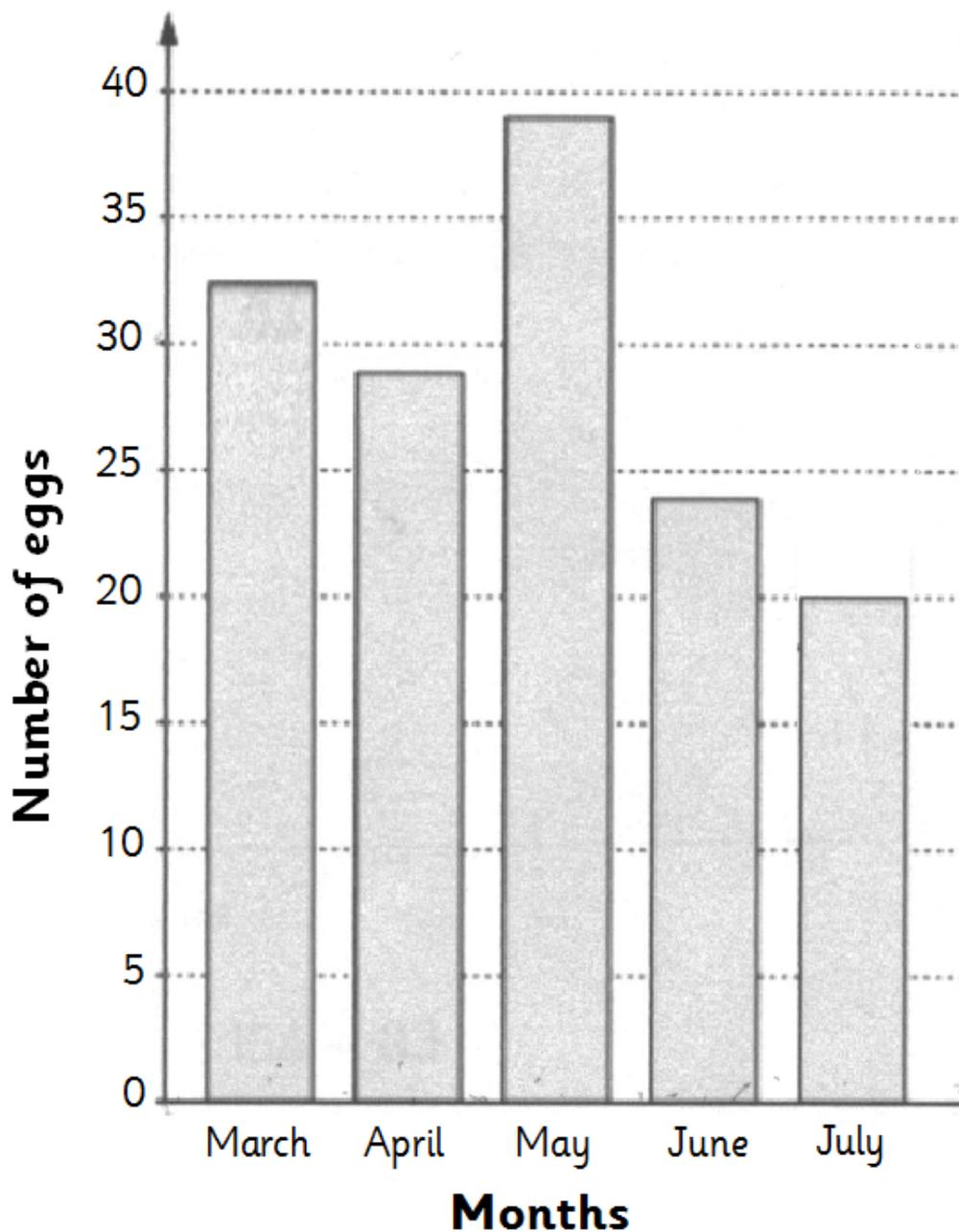
Can you help Jack to write the total?

$$54 + 10 =$$

1. Can you help Jack to write the total?

$$100 + 20 + 3 =$$

Jack's hens lay golden eggs. Here is a graph that shows the eggs laid over **5 months**.



2. In which months were **between 30 and 40 eggs laid**?

and

3. How many eggs were laid in July?

Jack needs more help!



Look at these cards.

4

7

3

9

4. What is the **largest** total you can make using each card only **once**?

$$\begin{array}{|c|c|} \hline & \\ \hline \end{array} + \begin{array}{|c|c|} \hline & \\ \hline \end{array}$$

5. What is the total?



Jack spends **four and a half hours a week** looking after the hens and the cows.

He spends **110 minutes** looking after the hens.

6. How many minutes does he spend looking after the cows?

minutes

When Jack climbs the beanstalk, he climbs **44 metres**, has a rest and then climbs **35 metres more**.

7. How far did he climb altogether?

metres

8. Match each addition to a multiplication.

One is done for you.

$$5 + 5 + 5 + 5$$

$$5 \times 2$$

$$2 + 2 + 2$$

$$2 \times 3$$

$$5 \times 4$$

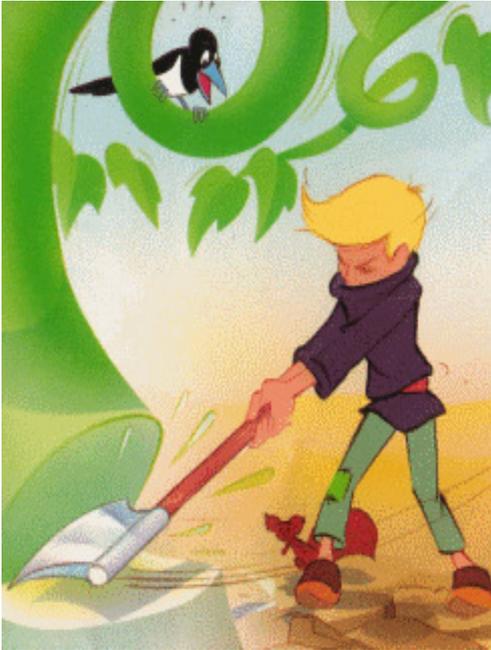
$$6 + 6 + 6 + 6 + 6$$

$$3 \times 4$$

$$3 + 3 + 3 + 3$$

$$5 \times 5$$

$$6 \times 5$$



The beanstalk is **96m 60cm** high and after Jack has cut it down, he needs to cut it into **3 pieces of equal length**.

9. How long will each piece be?

m cm



The giant buys his pies in a big sack, there are **50** in each sack. **12** are meat pies, **22** are fruit pies, the rest are cheese and onion pies.

10. How many cheese and onion pies are there?

Show how you work it out in the box.

cheese and onion pies

Jack stores his eggs in boxes. There are **10** eggs in each box and **3** more eggs.



10 eggs



10 eggs



10 eggs



10 eggs



11. How many eggs are there **altogether**?

eggs

When Jack walks to the market, he counts his steps, he walks **997** steps and then **10 more**.

12. How many steps does he walk **altogether**?

steps

Mr Giant has been talking to the **Mrs Giant**.



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

is heavier
than 200kgs.

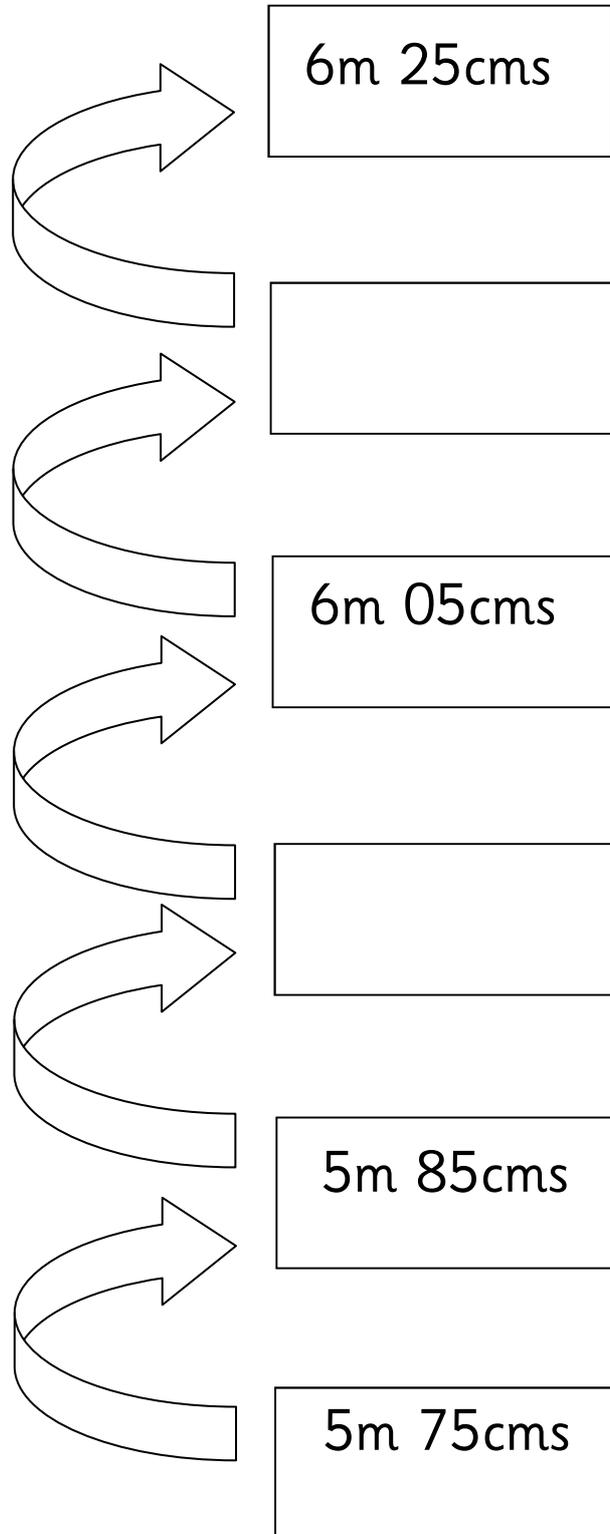
is **not** heavier
than 200kgs.

has brown eyes

does **not** have
brown eyes

The branches of the beanstalk are the same distance apart.

14. Write the missing lengths in this sequence.



When the cockerel wakes Jack up in the morning, he looks at his digital alarm clock, his watch shows the same time.

15. Can you draw the hands on the watch?



16. Can you help Jack work out this sum?

$$\frac{1}{2} \text{ of } 10 = \frac{1}{4} \text{ of } \quad \square$$



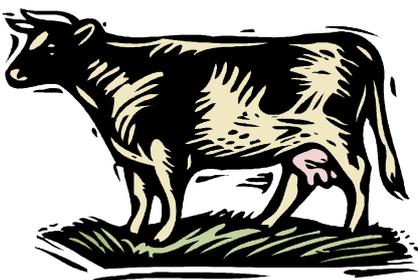
The lady giant needs to buy **16** pies. They are sold in bags of **5**.

17. How many sacks does she need to buy?

18. If each sack costs **£2.00**, how much will she have to spend?

Jack wants to buy a cow at the market. The cow costs **£32**. Jack has **£20**.

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



£32

There are four fields in Jack's farm. Two of these fields have no lines of symmetry.

20. Draw a cross (x) on them.

You may use a mirror.

