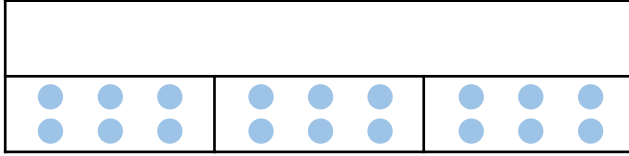# Calculate Quantities

Calculate Quantities

1a. Rosie is finding fractions of an amount. She knows that $\frac{1}{3}$ of her number is 6.
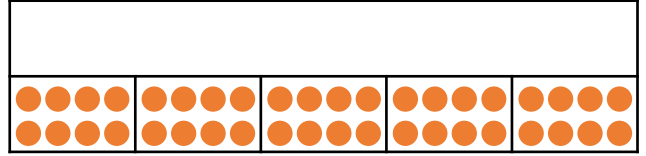
Use the bar model to find the whole.

⭐ VF

1b. Jake is finding fractions of an amount. He knows that $\frac{1}{5}$ of her number is 8.
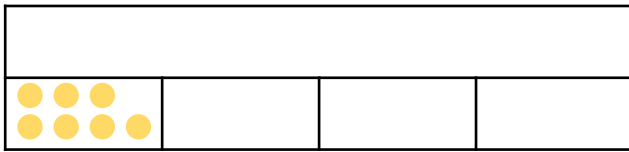
Use the bar model to find the whole.

⭐ VF
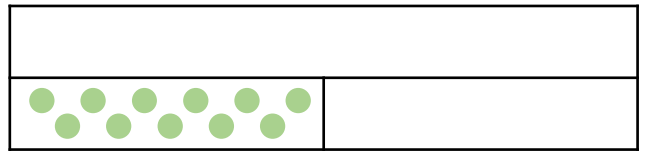
2a. $\frac{1}{4}$ of a number is 7.

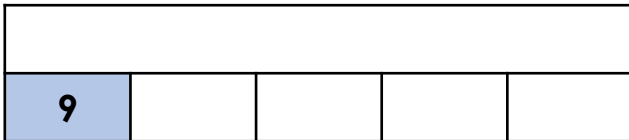Complete the bar model to find the whole.

⭐ VF

2b. $\frac{1}{2}$ of a number is 11.

Complete the bar model to find the whole.

⭐ VF

3a. Anna knows $\frac{1}{5}$ of a number is 9.

9				

Use this information and the bar model above to complete the sentence below:

$\frac{1}{5}$ of ☐ = ☐

⭐ VF

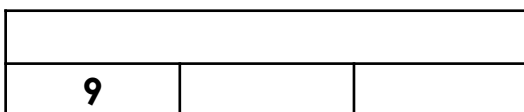**3b.** Ellan knows $\frac{1}{3}$ of a number is 7.

7		

Use this information and the bar model above to complete the sentence below:
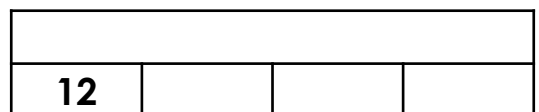
$\frac{1}{3}$ of ☐ = ☐

⭐ VF

4a. Fred has a packet of biscuits. He has eaten $\frac{1}{3}$ of the packet. He has eaten a total of 9 biscuits. How many biscuits were in the packet before Fred started eating them?

9		

⭐ VF

4b. Annie has a packet of crisps. She has eaten $\frac{1}{4}$ of the packet. She has eaten a total of 12 crisps. How many crisps were in the packet before Annie started eating them?

12			

⭐ VF

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Varied Fluency – Calculate Quantities – Year 4 Developing

Calculate Quantities

Calculate Quantities

5a. Marco is finding fractions of an amount. He knows that $\frac{5}{8}$ of his number is 20.
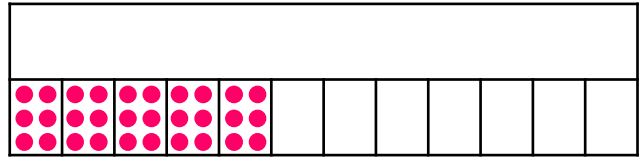
Use the bar model to find the whole.

VF
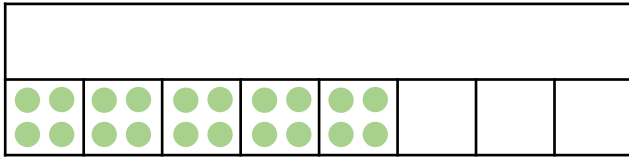
5b. Millie is finding fractions of an amount. She knows that $\frac{5}{12}$ of his number is 30.
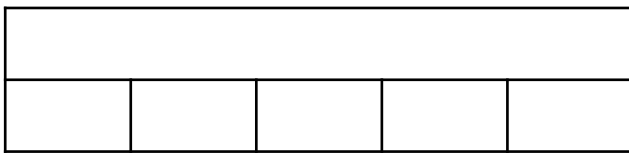
Use the bar model to find the whole.
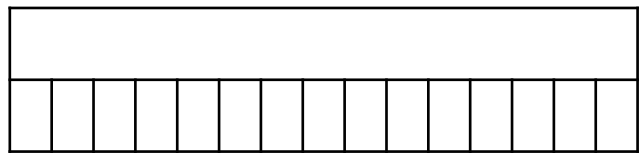
VF

6a. $\frac{3}{5}$ of a number is 15.

Complete the bar model to find the whole.
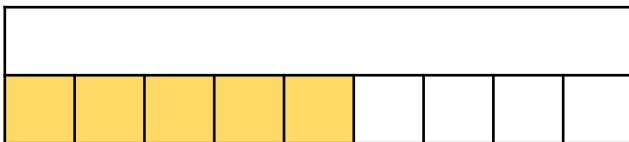
VF

6b. $\frac{7}{15}$ of a number is 21.

Complete the bar model to find the whole.

VF

7a. Georgie knows $\frac{5}{9}$ of a number is 30.

30

Use this information and the bar model above to complete the sentence below:

$$\frac{5}{9} \text{ of } \boxed{} = \boxed{}$$

VF

7b. Benny knows $\frac{4}{11}$ of a number is 12.
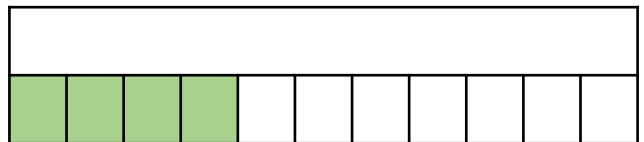
12

Use this information and the bar model above to complete the sentence below:

$$\frac{4}{11} \text{ of } \boxed{} = \boxed{}$$

VF

8a. George has a packet of sweets.

He has eaten $\frac{4}{9}$ of the packet.

He has eaten 16 sweets.

How many sweets were in the packet before George started eating them?

VF

8b. Freda has a pallet of paint.

She has used $\frac{3}{7}$ of the pallet.

She has used 12ml of paint.

How much paint was on the pallet before Freda started painting?

VF

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Varied Fluency – Calculate Quantities – Year 4 Expected

Calculate Quantities

9a.
Pippa is finding fractions of an amount. She knows that $\frac{2}{14}$ of her number is 6.

Use the bar model to find the whole.

⭐GD   VF

9b.
Dylan is finding fractions of an amount. He knows that $\frac{4}{16}$ of his number is 10.

Use the bar model to find the whole.

⭐GD   VF

10a.
$\frac{6}{12}$ of a number is 18.

Complete the bar model to find the whole.

⭐GD   VF

10b.
$\frac{4}{14}$ of a number is 16.

Complete the bar model to find the whole.

⭐GD   VF

11a.
Philip knows $\frac{6}{9}$ of a number is 72.

Use this information and the bar model above to complete the sentence below:

$\frac{4}{9}$ of ☐ = ☐

⭐GD   VF

11b.
Alice knows $\frac{10}{15}$ of a number is 30.

Use this information and the bar model above to complete the sentence below:

$\frac{9}{15}$ of ☐ = ☐

⭐GD   VF

12a.
Leo and Liz are eating chocolates.

Leo has eaten $\frac{1}{4}$ of the box.

Liz has eaten $\frac{3}{8}$ of the box.

If Leo has eaten 10 chocolates, how many did Liz eat?

How many chocolates were in the box before they were opened?

⭐GD   VF

12b.
Chad and Cara are eating cakes.

Chad has eaten $\frac{2}{6}$ of the batch.

Cara has eaten $\frac{5}{11}$ of the batch.

If Cara has eaten 15 cakes, how many did Chad eat?

How many cakes were in the batch before they started eating them?

⭐GD   VF

Developing

1a. 18

2a. 28

3a. 45; $\frac{1}{5}$ of $\boxed{45}$ = $\boxed{9}$

4a. 27 biscuits

Expected

5a. 32

6a. 25

7a. 54; $\frac{5}{9}$ of $\boxed{54}$ = $\boxed{30}$

8a. 36 sweets

Greater Depth

9a. 21

10a. 36

11a. 108; $\frac{2}{9}$ of $\boxed{108}$ = $\boxed{24}$

12a. Leo has eaten 15 chocolates. There were 40 chocolates to begin with.

Developing

1b. 40

2b. 22

3b. 21; $\frac{1}{3}$ of $\boxed{21}$ = $\boxed{7}$

4b. 48 crisps

Expected

5b. 72

6b. 45

7b. 33; $\frac{4}{11}$ of $\boxed{33}$ = $\boxed{12}$

8b. 28ml of paint

Greater Depth

9b. 40

10b. 56

11b. 45; $\frac{9}{15}$ of $\boxed{45}$ = $\boxed{27}$

12b. Chad has eaten 11 mini pancakes. There were 33 mini pancakes to begin with.

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Varied Fluency – Calculate Quantities ANSWERS