

Varied Fluency

Step 8: Fraction of an Amount 2

National Curriculum Objectives:

Mathematics Year 3: (3F1c) [Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators](#)

Mathematics Year 3: (3F1b) [Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators](#)

Mathematics Year 3: (3F3) [Compare and order unit fractions, and fractions with the same denominators](#)

Differentiation:

Developing Questions to support using known division facts to find a non unit fraction of an amount. Using denominations divisible by 2, 5, and 10 up to 5 times the denominator with pictorial support and no exchanging.

Expected Questions to support using known division facts to find a non unit fraction of an amount. Using denominations divisible by 2, 3, 4, 5, 8 and 10 up to 12 times the denominator with pictorial support and some exchanging.

Greater Depth Questions to support using known division facts to find a non unit fraction of an amount. Using denominations divisible by 2, 3, 4, 5, 8 and 10 up to 12 times the denominator and beyond using known times tables facts with some pictorial support and some exchanging.

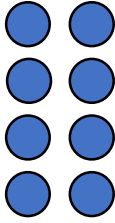
More [Year 3 Fractions](#) resources.

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Fraction of an Amount 2

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1a. Use the counters to find two quarters of 8.

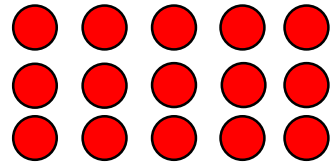


$$\frac{2}{4} \text{ of } 8 = \square$$



VF

1b. Use the counters to find two fifths of 15.



$$\frac{2}{5} \text{ of } 15 = \square$$



VF

2a. True or false?

$$\frac{2}{3} \text{ of } 15 = 12$$



VF

2b. True or false?

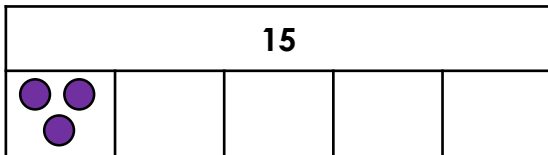
$$\frac{3}{10} \text{ of } 30 = 10$$



VF

3a. Draw counters to complete the bar model to solve the calculation.

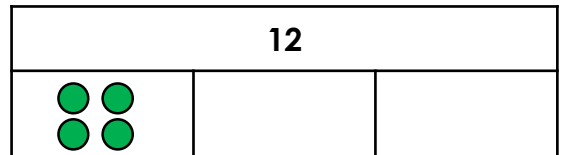
$$\frac{3}{5} \text{ of } 15$$



VF

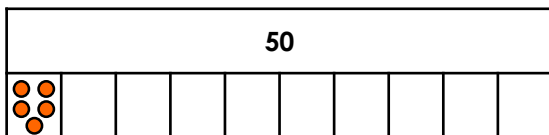
3b. Draw counters to complete the bar model to solve the calculation.

$$\frac{2}{3} \text{ of } 12$$



VF

4a. Use the bar model below to calculate the following fractions.



A. $\frac{2}{10}$ of 50

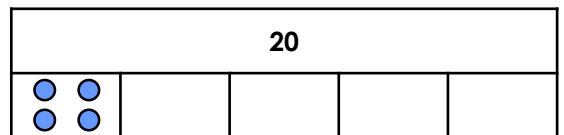
B. $\frac{6}{10}$ of 50

C. $\frac{9}{10}$ of 50



VF

4b. Use the bar model below to calculate the following fractions.



A. $\frac{2}{5}$ of 20

B. $\frac{3}{5}$ of 20

C. $\frac{4}{5}$ of 20

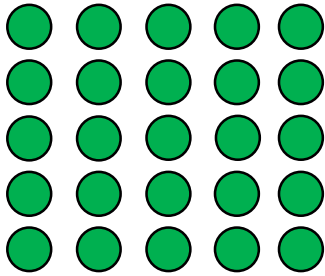


VF

Fraction of an Amount 2

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5a. Use the counters to find three fifths of 25.

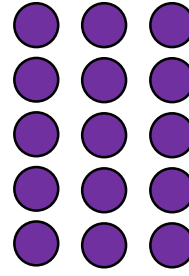


$$\frac{3}{5} \text{ of } 25 = \square$$



VF

5b. Use the counters to find two thirds of 15.



$$\frac{2}{3} \text{ of } 15 = \square$$



VF

6a. True or false?

$$\frac{3}{4} \text{ of } 24 = 18$$



VF

6b. True or false?

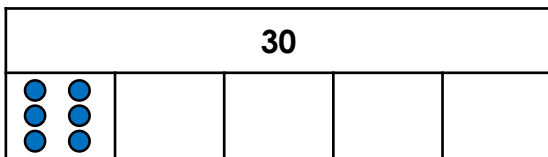
$$\frac{6}{8} \text{ of } 32 = 20$$



VF

7a. Draw counters to complete the bar model to solve the calculation.

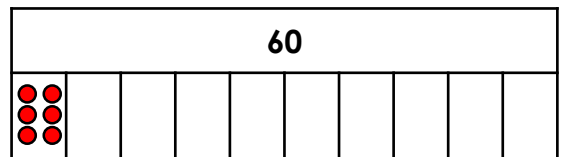
$$\frac{4}{5} \text{ of } 30$$



VF

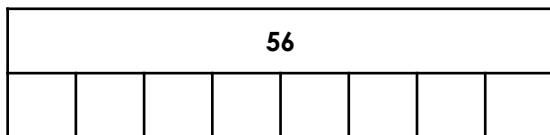
7b. Draw counters to complete the bar model to solve the calculation.

$$\frac{7}{10} \text{ of } 60$$



VF

8a. Use the bar model below to calculate the following fractions.



A. $\frac{2}{8}$ of 56

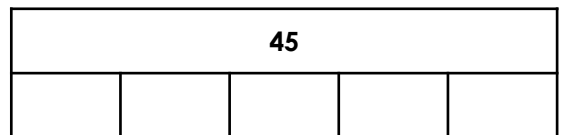
B. $\frac{4}{8}$ of 56

C. $\frac{5}{8}$ of 56



VF

8b. Use the bar model below to calculate the following fractions.



A. $\frac{2}{5}$ of 45

B. $\frac{3}{5}$ of 45

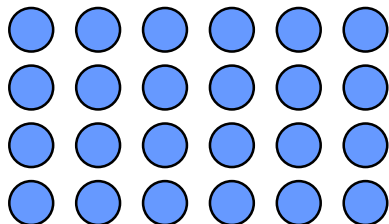
C. $\frac{4}{5}$ of 45



VF

Fraction of an Amount 2

9a. Use the counters to find four sixths of 24.



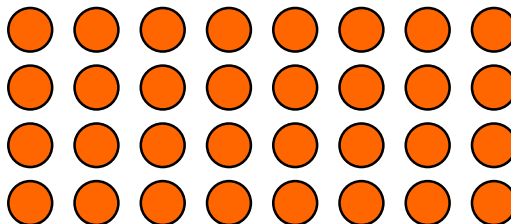
$$\frac{4}{6} \text{ of } 24 = \square$$



VF

Fraction of an Amount 2

9b. Use the counters to find five eighths of 32.



$$\frac{5}{8} \text{ of } 32 = \square$$



VF

10a. True or false?

$$\frac{3}{7} \text{ of } 49 = 14$$



VF

10b. True or false?

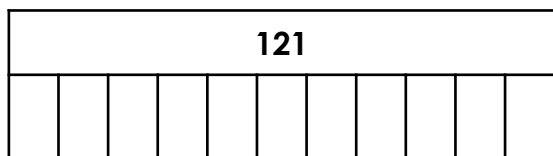
$$\frac{8}{9} \text{ of } 63 = 18$$



VF

11a. Draw counters to complete the bar model to solve the calculation.

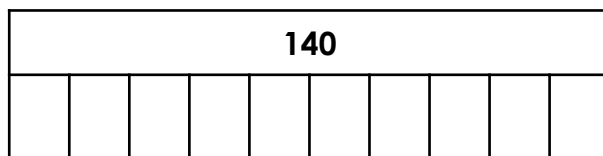
$$\frac{5}{11} \text{ of } 121$$



VF

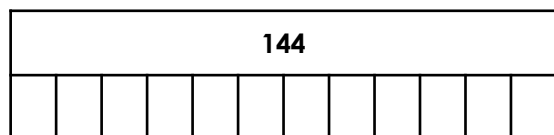
11b. Draw counters to complete the bar model to solve the calculation.

$$\frac{4}{10} \text{ of } 140$$



VF

12a. Use the bar model below to calculate the following fractions.

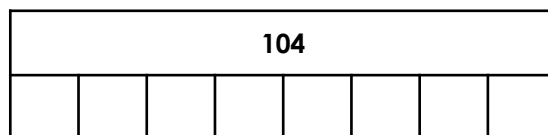


- A. $\frac{2}{12}$ of 144
- B. $\frac{7}{12}$ of 144
- C. $\frac{11}{12}$ of 144



VF

12b. Use the bar model below to calculate the following fractions.



- A. $\frac{3}{8}$ of 104
- B. $\frac{5}{8}$ of 104
- C. $\frac{7}{8}$ of 104



VF

Varied Fluency
Fraction of an Amount 2

Developing

- 1a. 4
2a. False, $\frac{2}{3}$ of 15 = 10
3a. 6 more counters should be added to make 9.
4a. A is 10, B is 30, C is 45

Expected

- 5a. 15
6a. True
7a. 18 more counters should be added to make 24.
8a. A is 14, B is 28, C is 35

Greater Depth

- 9a. 16
10a. False, $\frac{3}{7}$ of 49 = 21
11a. 55 counters should be added.
12a. A is 24, B is 84, C is 132

Varied Fluency
Fraction of an Amount 2

Developing

- 1b. 6
2b. False
3b. 4 more counters should be added to make 8.
4b. A is 8, B is 12, C is 16

Expected

- 5b. 10
6b. False, $\frac{6}{8}$ of 32 = 24
7b. 36 more counters should be added to make 42.
8b. A is 18, B is 27, C is 36

Greater Depth

- 9b. 20
10b. False, $\frac{8}{9}$ of 63 = 56
11b. 56 counters should be added.
12b. A is 39, B is 65, C is 91