

Fractions of a quantity

Divide by the denominator to find one group, then multiply by the numerator.



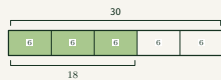
Name _____

Date _____

Divide, then multiply

To find a fraction of a quantity, divide the quantity by the denominator to find one group (the unit fraction), then multiply by the numerator to find the number of groups you need.

Worked example Find $\frac{3}{5}$ of 30 using the bar.

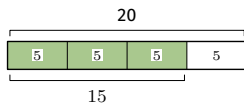


$$30 \div 5 = 6 \text{ (one group).}$$

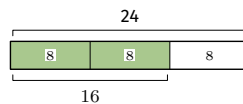
$$3 \times 6 = 18.$$

$$\frac{3}{5} \text{ of } 30 = 18.$$

1. Use the bar to find $\frac{3}{4}$ of 20.



2. Use the bar to find $\frac{2}{3}$ of 24.



3. $\frac{1}{2}$ of 10.

4. $\frac{1}{3}$ of 21.

5. $\frac{1}{4}$ of 28.

6. $\frac{2}{3}$ of 15.

7. $\frac{3}{5}$ of 25.

8. $\frac{5}{6}$ of 24.

9. $\frac{3}{10}$ of 80.

Fractions of a quantity (continued)



Divide by the denominator to find one group, then multiply by the numerator.

Name _____

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10. $\frac{2}{7}$ of 35.

11. Fill in the blank: $\frac{1}{4}$ of $\square$ is 9.

12. Is $\frac{2}{3}$ of 18 equal to 6?

13. Which is greater: $\frac{2}{5}$ of 40 or $\frac{3}{10}$ of 40?

14. A class has 30 students. $\frac{2}{5}$ are absent. How many students are absent?

15. A tank holds 60 L. It is $\frac{7}{10}$ full. How many litres?

16. A student says $\frac{3}{4}$ of 20 is 80. Are they correct? Explain.

17. Which does not belong: $\frac{1}{2}$ of 18, $\frac{2}{4}$ of 18, $\frac{3}{6}$ of 18, $\frac{2}{3}$ of 18?

18. A jar has 45 lollies. $\frac{4}{9}$ are red. How many red lollies?
