



# Finding Fractions Of A Quantity

Mana Maths

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# Te reo Māori terms



**hautau**

fraction

Open in Te Aka

**tau whakarea**

multiplication

Open in Te Aka

**rahinga**

quantity

Open in Te Aka

**tauoti**

whole number

Open in Te Aka

# Foundation

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

2.  $\frac{1}{2}$  of 18.

3.  $\frac{1}{3}$  of 12.

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

5.  $\frac{1}{4}$  of 16.

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

7.  $\frac{3}{4}$  of 20.

8.  $\frac{3}{4}$  of 32.

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

10.  $\frac{2}{3}$  of 24.

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

12.  $\frac{4}{5}$  of 30.

**13.**  $\frac{5}{6}$  of 24.

**14.**  $\frac{2}{5}$  of 35.

**15.**  $\frac{3}{8}$  of 16.

**16.**  $\frac{5}{8}$  of 24.

# Proficient

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

2.  $\frac{5}{6}$  of 42.

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

4.  $\frac{7}{8}$  of 48.

5.  $\frac{4}{9}$  of 72.

6.  $\frac{5}{12}$  of 84.

7.  $\frac{11}{20}$  of 100.

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

9.  $\frac{7}{12}$  of 60.

10.  $\frac{9}{10}$  of 70.

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

12. Fill in the blank:  $\frac{3}{5}$  of  
 $\square$  is 24.

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

**14.** Is  $\frac{3}{4}$  of 28 equal to 21?

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

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

**17.** A rope is 36 m long.  $\frac{3}{4}$  is used. How many metres?

**18.** In one short sentence, what does  $\frac{3}{5}$  of mean in  $\frac{3}{5}$  of 20?

# Excellence

1. A student says  $\frac{3}{4}$  of 20 is 80. Are they correct? Explain.
2. A student says  $\frac{2}{3}$  of 27 means  $27 \times 2 \times 3$ . Correct? Explain.
3. Fill in the blank:  $\frac{5}{8}$  of  $\square$  is 25.
4. Fill in the blank:  $\frac{7}{9}$  of  $\square$  is 35.
5. Greater:  $\frac{3}{5}$  of 50 or  $\frac{2}{3}$  of 45? Show working.
6. Smaller:  $\frac{5}{6}$  of 24 or  $\frac{3}{4}$  of 28?
7. A tank holds 60 L and is  $\frac{7}{10}$  full. How many litres are in it?
8. A team played 32 games and won  $\frac{3}{8}$ . How many wins?
9. A baker made 48 muffins.  $\frac{5}{12}$  were chocolate. How many?

- 10.** If  $\frac{m}{5}$  of 35 is 21, then  $m = \underline{\hspace{2cm}}$ .
- 11.** If  $\frac{3}{n}$  of 40 is 24, then  $n = \underline{\hspace{2cm}}$ .
- 12.** Is  $\frac{4}{7}$  of 63 equal to 28? Explain.
- 13.** A strip is 54 cm long. Mina cuts off  $\frac{2}{9}$ . How many cm?
- 14.** A jar has 45 lollies.  $\frac{4}{9}$  are red. How many red?
- 15.** Which does not belong:  $\frac{1}{2}$  of 18,  $\frac{2}{4}$  of 18,  $\frac{3}{6}$  of 18,  $\frac{2}{3}$  of 18?
- 16.** Explain why  $\frac{3}{4}$  of 28 can be found by dividing by 4, then multiplying by 3.