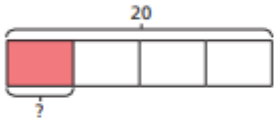
Wednesday Maths

Fractions of a quantity

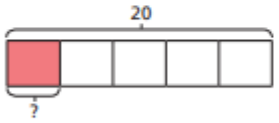
White Rose Maths

1 Complete the number sentences.

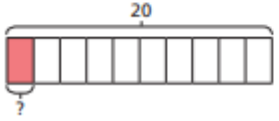
a) $\frac{1}{4}$ of 20 = ☐



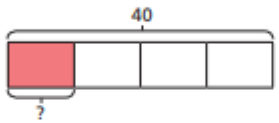
b) $\frac{1}{5}$ of 20 = ☐



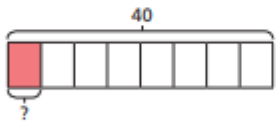
c) $\frac{1}{10}$ of 20 = ☐



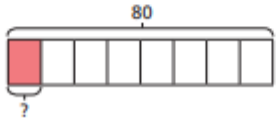
d) $\frac{1}{4}$ of 40 = ☐



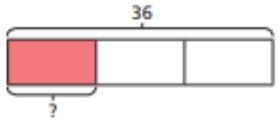
e) $\frac{1}{8}$ of 40 = ☐



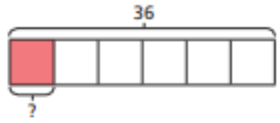
f) $\frac{1}{8}$ of 80 = ☐



g) $\frac{1}{3}$ of 36 = ☐

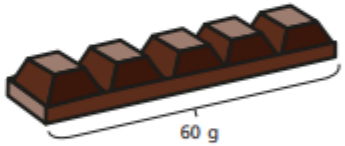


h) $\frac{1}{6}$ of 36 = ☐



2 Filip has a chocolate bar with 5 equal pieces.

The chocolate bar weighs 60 g.



a) What is the mass of one piece?

The mass of one piece is ☐ g.

b) Filip eats $\frac{3}{5}$ of the bar of chocolate.

How many grams does Filip eat?

Filip eats ☐ g of chocolate.

Wednesday Maths

3 Complete the number sentences.

a) $\frac{1}{4}$ of 24 = ☐

$\frac{3}{4}$ of 24 = ☐

b) $\frac{1}{7}$ of 35 = ☐

$\frac{3}{7}$ of 35 = ☐

$\frac{5}{7}$ of 35 = ☐

c) $\frac{1}{8}$ of 32 = ☐

$\frac{5}{8}$ of 32 = ☐

d) $\frac{5}{8}$ of 64 = ☐

$\frac{7}{8}$ of 64 = ☐

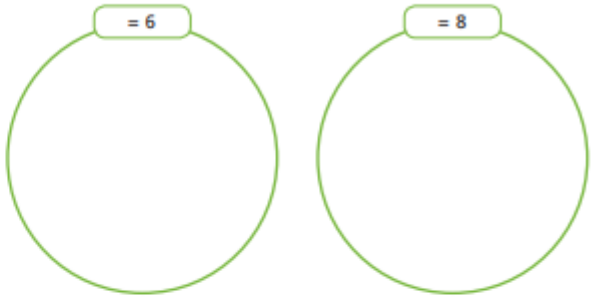
$\frac{10}{8}$ of 64 = ☐

4 Match the calculations to the answers.

$\frac{2}{3}$ of 18	18
$\frac{5}{6}$ of 18	15
$\frac{9}{10}$ of 20	16
$\frac{4}{5}$ of 20	12

5 a) Write each calculation in the correct circle.

$\frac{1}{2}$ of 16 $\frac{1}{4}$ of 24 $\frac{2}{3}$ of 9 $\frac{3}{2}$ of 4 $\frac{1}{6}$ of 48



b) Write one more calculation in each circle.

6 Write <, > or = to compare the calculations.

a) $\frac{2}{7}$ of 21 ◯ $\frac{2}{3}$ of 21

b) $\frac{3}{5}$ of 40 ◯ $\frac{2}{3}$ of 36

c) $\frac{6}{8}$ of 40 ◯ $\frac{3}{4}$ of 40

d) $\frac{6}{10}$ of 50 ◯ $\frac{3}{10}$ of 100

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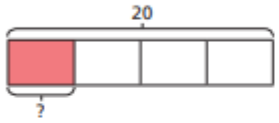
(Answers below)

Wednesday Maths

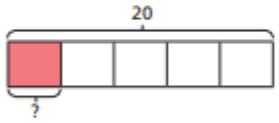
Fractions of a quantity

1 Complete the number sentences.

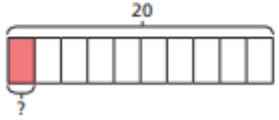
a) $\frac{1}{4}$ of 20 = 5



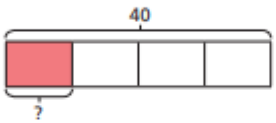
b) $\frac{1}{5}$ of 20 = 4



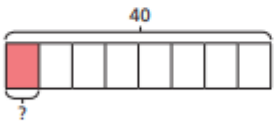
c) $\frac{1}{10}$ of 20 = 2



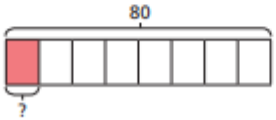
d) $\frac{1}{4}$ of 40 = 10



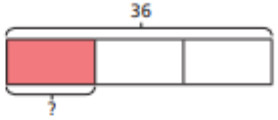
e) $\frac{1}{8}$ of 40 = 5



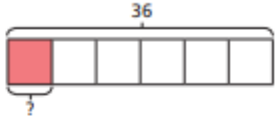
f) $\frac{1}{8}$ of 80 = 10



g) $\frac{1}{3}$ of 36 = 12

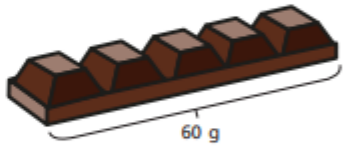


h) $\frac{1}{6}$ of 36 = 6



2 Filip has a chocolate bar with 5 equal pieces.

The chocolate bar weighs 60 g.



a) What is the mass of one piece?

The mass of one piece is 12 g.

b) Filip eats $\frac{3}{5}$ of the bar of chocolate.

How many grams does Filip eat?

Filip eats 36 g of chocolate.

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Wednesday Maths

3 Complete the number sentences.

a) $\frac{1}{4}$ of 24 = 6

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

b) $\frac{1}{7}$ of 35 = 5

$\frac{3}{7}$ of 35 = 15

$\frac{5}{7}$ of 35 = 25

c) $\frac{1}{8}$ of 32 = 4

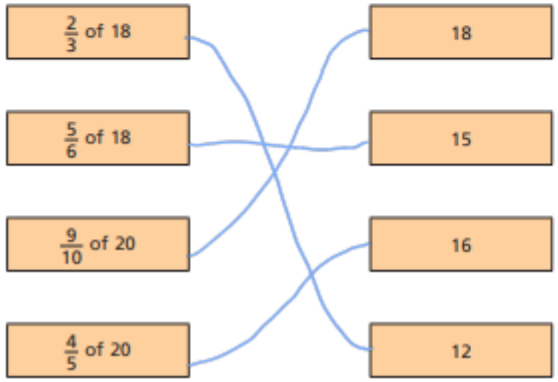
$\frac{5}{8}$ of 32 = 20

d) $\frac{5}{8}$ of 64 = 40

$\frac{7}{8}$ of 64 = 56

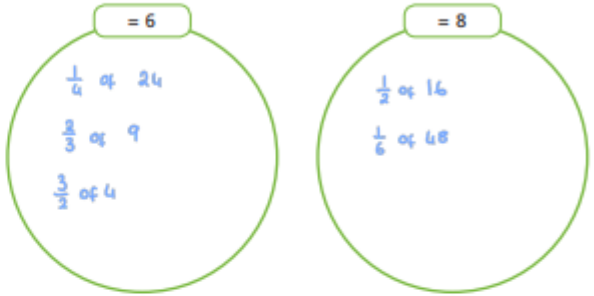
$\frac{10}{8}$ of 64 = 80

4 Match the calculations to the answers.



5 a) Write each calculation in the correct circle.

$\frac{1}{2}$ of 16 $\frac{1}{4}$ of 24 $\frac{2}{3}$ of 9 $\frac{3}{2}$ of 4 $\frac{1}{6}$ of 48



b) Write one more calculation in each circle.

6 Write <, > or = to compare the calculations.

a) $\frac{2}{7}$ of 21 < $\frac{2}{3}$ of 21

b) $\frac{3}{5}$ of 40 = $\frac{2}{3}$ of 36

c) $\frac{6}{8}$ of 40 = $\frac{3}{4}$ of 40

d) $\frac{6}{10}$ of 50 = $\frac{3}{10}$ of 100

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