1 a) Work out $\frac{1}{3} \times 6$

$\frac{1}{3} \times 6 = \frac{\boxed{6}}{3} = \boxed{2}$

b) Work out $\frac{1}{3}$ of 6
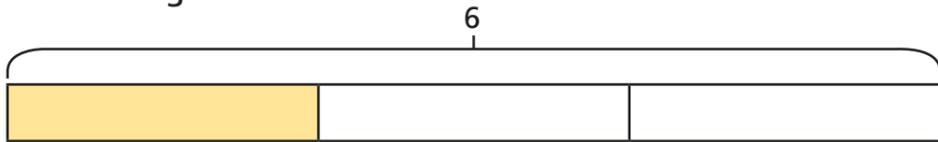
$\frac{1}{3}$ of $6 = \boxed{6} \div \boxed{3} = \boxed{2}$

c) What is the same about these calculations?

d) Work out $\frac{2}{3}$ of 6

$\frac{2}{3}$ of $6 = \boxed{6} \div \boxed{3} \times 2 = \boxed{4}$

e) Work out $\frac{2}{3} \times 6$
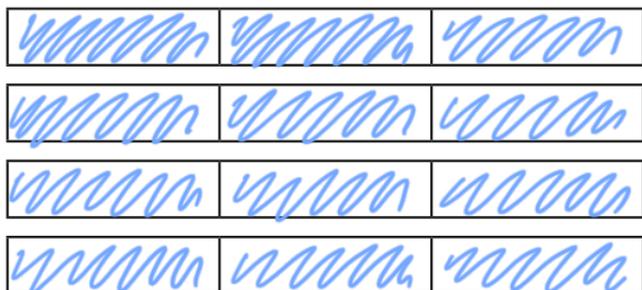
$\frac{2}{3} \times 6 = \boxed{\frac{12}{3}} = \boxed{4}$

2 Complete the calculations.

a) $\frac{1}{3} \times 12 = \boxed{4}$

$\frac{1}{3}$ of $12 = \boxed{4}$

b) $12 \times \frac{1}{4} = \boxed{3}$

$\frac{1}{4}$ of $12 = \boxed{3}$

c) $12 \times \frac{2}{3} = \boxed{8}$

$\frac{2}{3}$ of $12 = \boxed{8}$

d) $\frac{3}{4} \times 12 = \boxed{9}$

$\frac{3}{4}$ of $12 = \boxed{9}$

What do you notice?

3 Tick the calculation in each pair that is easier to work out.

a) $\frac{1}{5} \times 7$ ✓ $\frac{1}{5}$ of 7

b) $\frac{1}{5} \times 10$ $\frac{1}{5}$ of 10 ✓

c) $\frac{3}{5} \times 10$ $\frac{3}{5}$ of 10 ✓

d) $\frac{3}{10} \times 5$ ✓ $\frac{3}{10}$ of 5

Compare answers with a partner.
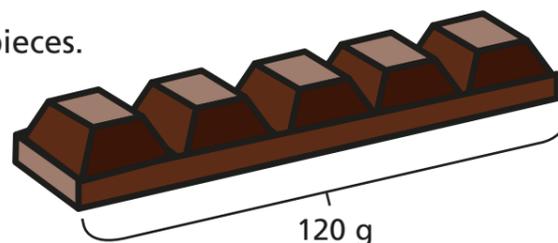
4 Complete the calculations.

a) $\frac{5}{6} \times 12 = \frac{5}{6}$ of $12 = \boxed{10}$

b) $\frac{3}{4} \times 24 = \frac{3}{4}$ of $24 = \boxed{18}$

c) $\frac{2}{7} \times \boxed{28} = \frac{2}{7}$ of $28 = \boxed{8}$

d) $\frac{4}{5} \times 45 = \frac{4}{5}$ of $\boxed{45} = \boxed{36}$

5 A bar of chocolate has 5 equal pieces.

The whole bar weighs 120g.

120 g

How much do three pieces weigh?

a) Write two calculations that will give the answer to the problem.
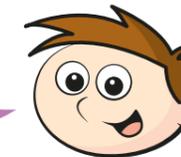
$\frac{3}{5}$ of 120 $\frac{3}{5} \times 120$

b) Work out the answer.

Three pieces of chocolate weigh $\boxed{72g}$

6 Teddy and Annie are working out $\frac{3}{7} \times 42$

a)

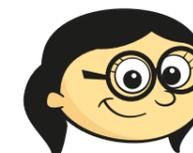> I will multiply 42 by $\frac{3}{7}$

Teddy

Use Teddy's method to work out the calculation.

$$42 \times \frac{3}{7} = \frac{126}{7} = 18$$

$\boxed{18}$

b)

> I will find $\frac{3}{7}$ of 42

Annie

Use Annie's method to work out the calculation.

$\boxed{18}$

c) Whose method do you prefer? _____

Explain why.

Various answers _____

_____

_____

d) When is it easier to find fractions of amounts rather than multiply fractions?

Give some examples for each method.