2020 SAMPLE Q1

Junior Cert Ordinary level

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Find the value of each of the following.

Simple Arithmetic

This question involves simple arithmetic (addition, multiplication and subtraction).

A **calculator** is allowed.

(i)

$$372 + 119$$

$$372 + 119$$
$$= 491$$

(ii)

$$3.4 \times 7$$

$$3.4 \times 7$$
$$= 23.8$$

BIMDAS

In (iii) we must be careful of the order of operations.

B rackets

I ndices (Powers)

M ultiplication

D ivision

A ddition

S ubtraction

(iii)

$$3 \times (7 - 5)$$

$$3 \times (7 - 5)$$
$$= 3 \times 2$$
$$= 6$$
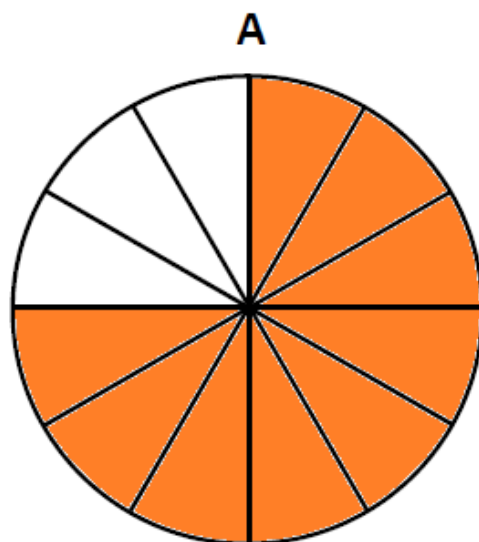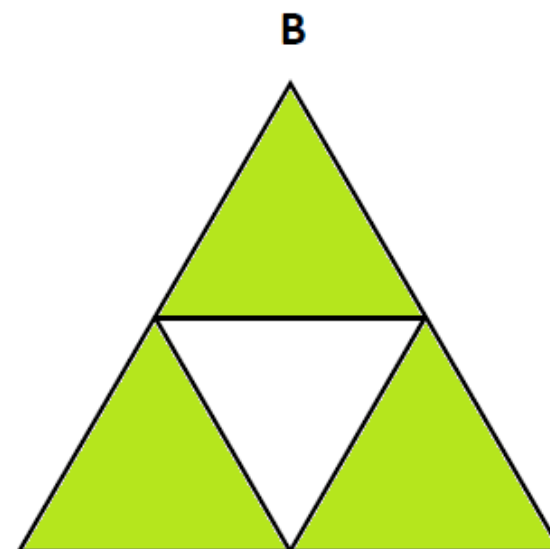
Shade in $\frac{3}{4}$ of the area of each shape below. The shapes are labelled **A** and **B**.

We need to shade in 3 out of every 4 sections.

A

B

As Shape A is divided in 16 equal parts we must find an equivalent fraction to $\frac{3}{4}$ with 16 as the denominator (bottom number).

$$\frac{3}{4} = \frac{12}{16}$$

This is very straightforward for shape B as there is only 4 sections. Shade in 3 of them.

$$\frac{3}{4}$$

Write the numbers **3**, **9**, and **25** into the three empty boxes below to make the mathematical statement true. Use each number only once.

$$\frac{3}{5} + \frac{9}{25} = \frac{24}{25}$$

Two fractions must have the same denominator before we can add them.

$$\frac{3}{5} + \frac{9}{25}$$

$$= \frac{15}{25} + \frac{9}{25}$$

$$= \frac{15 + 9}{25}$$

$$= \frac{24}{25}$$

Equivalent Fractions

$$\frac{3}{5} = \frac{15}{25}$$