

Cambridge O Level MATHEMATICS (SYLLABUS D) 4024

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Paper 1 Non-calculator

May/June 2025

Questions (1-2)

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1 Work out.

(a) $6 - 2 \times (-4)$

..... [1]

(b) 80×0.2

..... [1]

(c) $\frac{2}{9} \div \frac{5}{6}$

Solution:

(a) $6 - 2 \times (-4)$

$6 + 8$

14

BODMAS rules, multiplication
has higher priority
than addition

(b)

80×0.2

$80 \times \frac{2}{10}$

8×2

16

(c)

$\frac{2}{9} \div \frac{5}{6}$

$\frac{2}{9} \times \frac{6}{5}$

$= \frac{4}{15}$

- 2 A bag contains 11 balls.
There are 5 blue balls and 4 yellow balls.
The rest of the balls are green.
A ball is taken from the bag at random.

Find the probability that the ball is

- (a) yellow

..... [1]

- (b) not blue.

..... [1]

Solution:

(a) yellow

$$P(\text{yellow}) = \frac{\text{favourable outcomes}}{\text{Total outcomes}}$$

$$= \frac{4}{11}$$



(b) $P(\text{not blue}) = 1 - P(\text{blue})$

$$= 1 - \frac{5}{11}$$

$$P(\text{not blue}) = \frac{6}{11}$$

