

# Computation and Arithmetic



Name:

7 8 9 10 **11** 12



Navigator



Assessment



Student



25 min

## Question: 1

In the expression:  $\frac{180 \div 3^2}{6 \times 5 - 10} + 12$  which operation should be calculated first?

- a)  $6 \times 5$
- b)  $-10$
- c)  $180 \div 3$
- d)  $+12$
- e)  $3^2$

## Question: 2

Which number is the largest?

- a)  $2.1 \times 10^6$
- b)  $9.1 \times 10^3$
- c)  $6.1 \times 10^5$
- d)  $5.42 \times 10^{-6}$
- e)  $1.95 \times 10^6$

## Question: 3

$$4.2 \times 10^9 \times 2 \times 10^{-3} =$$

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## Question: 4

Convert  $3.2 \times 10^7$  cm into kilometres

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## Question: 5

Which cereal packet represents best value for money? (Price per gram)

- a) 500g for \$2.50
- b) 1 kg for \$4.98
- c) 620g for \$3.10
- d) 750 g for \$3.65
- e) 400g for \$1.99

## Question: 6

Which one of the following ratios is **not** equivalent to: 360 : 100

- a) 36 : 10
- b) 90 : 25
- c) 72 : 20
- d) 16 : 5
- e) 3.6 : 1

**Question: 7**

Amy is mixing 2 – stroke fuel for her model plane. The instructions state that the petrol to oil mixture must be in the ratio 20:1. Amy wants to fill her 1 litre container. The amount of oil required is closest to:

- a) 480ml
- b) 48ml
- c) 50ml
- d) 0.02l
- e) 0.021l

**Question: 8**

A car's fuel economy is quoted as: 8.2 litres per 100 kilometres. How far would you expect to travel on 3 litres of fuel?

- a) 30km
- b) 34.2km
- c) 37km
- d) 82km
- e) 27.3km

**Question: 9**

Watermelon has a pH of approximately 8.8. Blueberries have a pH of approximately 3.4. This means:

- a) Watermelon is  $2.5 \times 10^5$  times more acidic than blueberries
- b) Watermelon is 5.4 times more acidic than blueberries
- c) Blueberries are  $2.5 \times 10^5$  times more acidic than watermelon
- d) Blueberries are 5.4 times more acidic than watermelon
- e) Blueberries are 2.6 times more acidic than watermelon

**Question: 10**

In 2010 a 7.1 magnitude earth quake devastated Christchurch (NZ). A 5.4 magnitude quake hit Gippsland in 2012. How many times stronger was the Christchurch quake? (Answer correct to one decimal place).

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