

Computation and Arithmetic



Name: Answers

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

Question: 2

Which number is the largest?

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

Question: 3

$$4.2 \times 10^9 \times 2 \times 10^{-3} =$$
$$8.4 \times 10^6$$

Question: 4

Convert 3.2×10^7 cm into kilometres

320 km

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 2.5×10^5 times more acidic than blueberries
- b) Watermelon is 5.4 times more acidic than blueberries
- c) Blueberries are 2.5×10^5 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).

50.1 times stronger!