Percentage problems: 10 practice questions

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Name: _____ Date: _____

Attempt all questions and show your working. Suggested time: 15 to 20 minutes.

Section A: Consolidating (Questions 1-4)

Question 1

Write 35% as a fraction in simplest form and as a decimal.

Question 2

Find 20% of $45.

Question 3

Write ⅜ as a percentage.

Question 4

Ruby answered 18 out of 24 quiz questions correctly. What percentage did she get correct?

Section B: Standard (Questions 5-10)

Question 5

A school shirt normally costs $60. It is on sale with 25% off. What is the sale price?

Question 6

A 500 g tub of yoghurt costs $3.20 and a 1 kg tub of the same yoghurt costs $5.80.

(a) Find the price per 100 g for each tub.

(b) Which tub is the better buy?

Question 7

Increase $80 by 15%.

Question 8

Ethan scored 42 out of 50 on a maths test and 34 out of 40 on a science test. In which test did he do better? Show your working using percentages.

Question 9

A bike service costs $250 before GST. GST of 10% is added. What is the total price?

Question 10

The population of a country town grew from 12 000 to 12 900. What was the percentage increase?

Percentage problems: answers

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Question 1

Answer: 7/20 and 0.35

Question 2

Answer: $9

Question 3

Answer: 37.5%

Question 4

Answer: 75% (18/24 = ¾)

Question 5

Answer: $45

Question 6

Answer: (a) 500 g tub: $0.64 per 100 g, 1 kg tub: $0.58 per 100 g (b) the 1 kg tub

Question 7

Answer: $92 (80 × 1.15)

Question 8

Answer: Science. Maths is 84% and science is 85%.

Question 9

Answer: $275

Question 10

Answer: 7.5% ((900)/(12,000) × 100)