Percentages: 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

Find:

(a) 15% of 80

(b) 40% of $250

(c) 2.5% of 400

Question 2

Increase $60 by 20%.

Question 3

Decrease 150 kg by 30%.

Question 4

Write 18 out of 24 as a percentage.

Section B: Standard (Questions 5-10)

Question 5

The price of a pizza rose from $40 to $50. Find the percentage increase.

Question 6

The population of a country town fell from 8000 to 7400. Find the percentage decrease.

Question 7

(a) What single number do you multiply by to increase an amount by 15%?

(b) What single number do you multiply by to decrease an amount by 8%?

(c) Use your answer to (a) to increase $340 by 15%.

Question 8

A jacket originally priced at $180 is on sale with 25% off. What is the sale price?

Question 9

GST of 10% is added to many prices in Australia.

(a) A plumber's bill is $420 before GST. What is the total including GST?

(b) An electrician's bill is $231 including GST. What was the bill before GST was added?

Question 10

After a 20% discount, a pair of shoes costs $96. What was the original price?

Percentages: answers

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Question 1

Answer: (a) 12 (b) $100 (c) 10

Question 2

Answer: $72 (60 × 1.2)

Question 3

Answer: 105 kg (150 × 0.7)

Question 4

Answer: 75%

Question 5

Answer: 25% (10/40 × 100%)

Question 6

Answer: 7.5% (600/8000 × 100%)

Question 7

Answer: (a) 1.15 (b) 0.92 (c) $391 (340 × 1.15)

Question 8

Answer: $135 (180 × 0.75)

Question 9

Answer: (a) $462 (420 × 1.1) (b) $210 (231 ÷ 1.1)

Question 10

Answer: $120 (96 ÷ 0.8)