Linear equations: 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

Solve x + 7 = 15.

Question 2

Solve 4x = 36.

Question 3

Solve x - 9 = 14.

Question 4

Solve x/5 = 6.

Section B: Standard (Questions 5-10)

Question 5

Solve 3x + 5 = 26.

Question 6

Solve 5x - 8 = 32.

Question 7

Solve x/4 + 3 = 9.

Question 8

Solve 2(x + 3) = 22.

Question 9

Use substitution to decide whether each statement is true. Show your working.

(a) x = 6 is a solution of 4x - 7 = 17.

(b) x = 5 is a solution of 3x + 4 = 20.

Question 10

Solve $7x + 3 = 4x + 18$, then check your answer by substitution.

Linear equations: answers

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Question 1

Answer: x = 8

Question 2

Answer: x = 9

Question 3

Answer: x = 23

Question 4

Answer: x = 30

Question 5

Answer: x = 7

Question 6

Answer: x = 8

Question 7

Answer: x = 24

Question 8

Answer: x = 8

Question 9

Answer: (a) True: 4 × 6 - 7 = 17 (b) False: 3 × 5 + 4 = 19, not 20

Question 10

Answer: x = 5 (check: 7 × 5 + 3 = 38 and 4 × 5 + 18 = 38)