

SAMPLE SECTION QUIZ

Directions: This is a 15-question quiz. You may take this quiz only ONCE. Please use this printed version for your convenience.

Work out the questions carefully here and then submit your answers online. Your answers will be scored automatically for the online version of this quiz. Once you've completed the quiz online, the answer key with explanations will become available.

This is an untimed quiz, but it shouldn't take you longer than an hour to complete.

Question 1:

Solve.
 $52 = m + 12$

- $m = 40$
- $m = 64$
- $m = 41$
- $m = 50$

Question 2:

Solve.
 $7 = \frac{f}{21}$

- $f = 14$
- $f = 3$
- $f = 28$
- $f = 147$

Question 3:

Solve $136 = 8p$.

- $p = 17$
- $p = 144$
- $p = 128$
- $p = 18$

Question 4:

Solve the equation.
 $7x + 19 = 8$

- $x = -11/7$
- $x = -27/7$
- $x = 27/7$
- $x = 11/7$

Question 5:

Solve $16 = 6 - 2b$.

- $b = 5$
- $b = -11$
- $b = -5$
- $b = 11$

Question 6:

Solve.
 $14 - 3z = 32$

- $z = -46/3$
- $z = 46/3$
- $z = -6$
- $z = 6$

Question 7:

Solve.
 $11m + 2m - 3m + 10 = 50$

- $m = 3$
- $m = 4$
- $m = 5$
- $m = 8$

Question 8:

Solve.
 $-12 = -2z + 3 + 7z$

- $z = -3$
- $z = -15$
- $z = 1$
- $z = -1.8$

Question 9:

Solve the equation.
 $4(b - 8) = 40$

- $b = 2$
- $b = 8$
- $b = 18$
- $b = 72$

Question 10:

Solve $50r - 6 = 82r - 70$.

- $r = -64$
- $r = 64$
- $r = -2$
- $r = 2$

Question 11:

Solve $-4n - 6 + n = 2 - n$.

- $n = 1$
- $n = -4$
- $n = -2$
- $n = 2$

Question 12:

Choose the number of solutions for the equation.

$$6x - 2 + 8x = 9 + 14x - 11$$

- two solutions
- no solutions
- infinitely many solutions
- only one solution

Question 13:

Solve the equation.

$$2(3q - 2) = 3q + 5$$

- $q = 1$
- $q = 2$
- $q = 3$
- infinitely many solutions

Question 14:

Solve for the indicated variable.

$$w = x + \frac{y}{z} \text{ for } y$$

- $y = z(w + x)$
- $y = z(w - x)$
- $y = \frac{w + x}{z}$
- $y = \frac{w - x}{z}$

Question 15:

Solve.

$$|7x - 2| + 8 = 2$$

- No solution
- $x = \frac{4}{7}$
- $x = -\frac{4}{7}$
- $x = \frac{12}{7}$