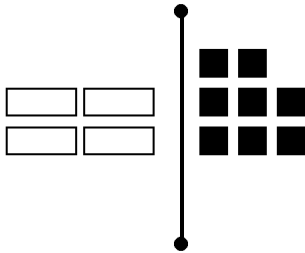


Final Exam Review - Unit 6**Multiple Choice**

Identify the choice that best completes the statement or answers the question.

- _____ 1. A black square represents -1 and a white rectangle represents the variable x . Find the value of x .



- a. -10 b. 2 c. -2 d. -6
- _____ 2. Two less than five times a number is 18. Let n represent the number. Solve for n .
a. 6 b. -4 c. 4 d. -6
- _____ 3. Solve this equation. $20 - 3x = 14$
a. 2 b. -2 c. 3 d. -3
- _____ 4. Solve this equation. $-5 + 5x = -10$
a. -2 b. -1 c. -3 d. -5
- _____ 5. Solve this equation. $\frac{x}{-5} = -9$
a. -45 b. -4 c. 45 d. -14
- _____ 6. Solve this equation. $\frac{w}{8} - 4 = 0$
a. -32 b. 32 c. -12 d. 12
- _____ 7. Expand. $-6(5 - x)$
a. $-30 + 6x$ b. $-30 - 6x$ c. $-11 - 6x$ d. $-30 - x$
- _____ 8. Solve this equation: $40 = 10(-v + 9)$
a. 5 b. -5 c. $-\frac{31}{10}$ d. 41

Name: _____

ID: A

_____ 9. Make a table of values for the relation $y = 1 - 4x$ for $x = 1, 2, 3$, and 4 .

a.

x	1	2	3	4
y	-4	-5	-6	-7

c.

x	1	2	3	4
y	-3	-6	-9	-12

b.

x	1	2	3	4
y	-3	-7	-11	-15

d.

x	1	2	3	4
y	3	7	11	15

_____ 10. The ordered pair (, 5) is in the linear relation with equation $y = 3x - 4$.
Find the missing number in the ordered pair.

- a. 3 b. $\frac{1}{3}$ c. 6 d. -6

_____ 11. Which relations have graphs that are lines going up to the right?

- i) $y = -5x + 3$
 ii) $y = 5x + 3$
 iii) $y = -5x - 3$
 iv) $y = 5x - 3$
- a. ii and iv b. i and iii c. ii d. i, ii, and iv

Final Exam Review - Unit 6

Answer Section

MULTIPLE CHOICE

1. ANS: C PTS: 1 DIF: Moderate
REF: 6.1 Solving Equations Using Models LOC: 8.PR2
TOP: Patterns and Relations (Variables and Equations) KEY: Conceptual Understanding
2. ANS: C PTS: 1 DIF: Moderate
REF: 6.1 Solving Equations Using Models LOC: 8.PR2
TOP: Patterns and Relations (Variables and Equations) KEY: Conceptual Understanding
3. ANS: A PTS: 1 DIF: Moderate
REF: 6.2 Solving Equations Using Algebra LOC: 8.PR2
TOP: Patterns and Relations (Variables and Equations) KEY: Conceptual Understanding
4. ANS: B PTS: 1 DIF: Moderate
REF: 6.2 Solving Equations Using Algebra LOC: 8.PR2
TOP: Patterns and Relations (Variables and Equations) KEY: Conceptual Understanding
5. ANS: C PTS: 1 DIF: Moderate
REF: 6.3 Solving Equations Involving Fractions LOC: 8.PR2
TOP: Patterns and Relations (Variables and Equations) KEY: Conceptual Understanding
6. ANS: B PTS: 1 DIF: Moderate
REF: 6.3 Solving Equations Involving Fractions LOC: 8.PR2
TOP: Patterns and Relations (Variables and Equations) KEY: Conceptual Understanding
7. ANS: A PTS: 1 DIF: Moderate REF: 6.4 The Distributive Property
LOC: 8.PR2 TOP: Patterns and Relations (Variables and Equations)
KEY: Conceptual Understanding
8. ANS: A PTS: 1 DIF: Moderate
REF: 6.5 Solving Equations Involving the Distributive Property
LOC: 8.PR2 TOP: Patterns and Relations (Variables and Equations)
KEY: Conceptual Understanding
9. ANS: B PTS: 1 DIF: Moderate REF: 6.6 Creating a Table of Values
LOC: 8.PR1 TOP: Patterns and Relations (Patterns) KEY: Conceptual Understanding
10. ANS: A PTS: 1 DIF: Moderate REF: 6.6 Creating a Table of Values
LOC: 8.PR1 TOP: Patterns and Relations (Patterns) KEY: Conceptual Understanding
11. ANS: A PTS: 1 DIF: Moderate REF: 6.7 Graphing Linear Relations
LOC: 8.PR1 TOP: Patterns and Relations (Patterns)
KEY: Conceptual Understanding | Problem-solving Skills