

8. The area A of a rectangle is the product of the rectangle's length l and its width w . Which of the following equations represents this statement?

(A) $A = \frac{l}{w}$ (B) $A = l + w$ (C) $A = 2l + 2w$ (D) $A = l \times w$

9. Expressed as a product of primes, the number 28 equals

(A) 2×14 (B) 4×7 (C) $2 \times 2 \times 7$ (D) $2 \times 3 \times 7$

10. $(2.1)^2 - (0.1)^2 =$

(A) 4 (B) 4.21 (C) 4.22 (D) 4.4

11. What is the radius of a circle whose area is 36π ?

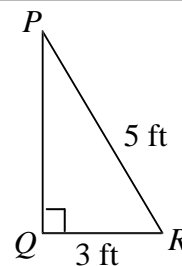
(A) 36 (B) 18 (C) 6 (D) 6π

12. For a certain class, the ratio of the number of female students to the total number of students is 2 to 5. If there are 35 students in the class, how many are female students?

(A) 10 (B) 14 (C) 21 (D) 30

13. In the right triangle PQR shown to the right, what is the length of PQ ?

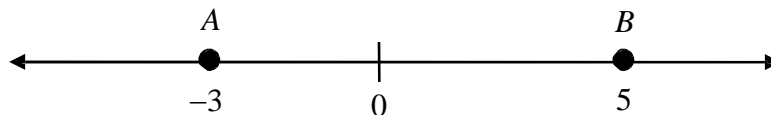
(A) 2 (B) 4 (C) 6 (D) 8



14. What number multiplied by -5 gives 60 as the result?

(A) 300 (B) 55 (C) 12 (D) -12

15. On the number line below, what number represents the point half the distance between points A and B?



(A) 0 (B) 1 (C) 2 (D) 4

KEY- MDTP Algebra Readiness Sample Test

Question	Correct Answer	Topic
1	A	DECM
2	B	EQTN
3	A	EXPS
4	C	FRAC
5	A	DECM
6	C	DECM
7	A	INTG
8	D	EQTN
9	C	INTG
10	D	EXPS
11	C	GEOM
12	B	FRAC
13	B	GEOM
14	D	INTG
15	B	GEOM

DECM	Decimals, their Operations & Applications; Percent
EQTN	Simple Equations and Operations with Literal Symbols
EXPS	Exponents and Square Roots; Scientific Notation
FRAC	Fractions and their Applications
GEOM	Geometry and Graphing
INTG	Integers, their Operations & Applications