



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)  $A = l \times w$

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

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

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

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

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11. What is the radius of a circle whose area is  $36\pi$ ?

(A) 36      (B) 18      (C) 6      (D)  $6\pi$

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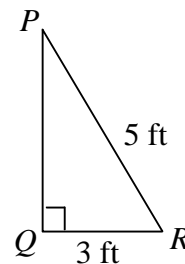
12. For a certain class, the ratio of the number of female students to the total number of students is 2 to 5. If there are 35 students in the class, how many are female students?

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

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

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

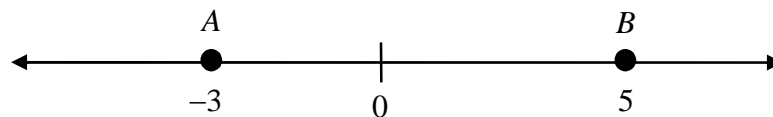


14. What number multiplied by  $-5$  gives 60 as the result?

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

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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

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