Revision worksheet for Term-1

What does the algebraic expression $4d$ say in words?

A. The sum of d and 4

B. 4 times d

C. 4 increased by d

D. The quotient of d and 4

$27 \div 3 + (12 - 4) =$

A $\frac{-11}{5}$

B $\frac{27}{11}$

C 17

D 25

Rewrite the expression $(8 - 3p)(-2)$ using the distributive Property.

A. $-16 + 6p$

B. $-10p$

C. $16 - 6p$

D. $10p$

Find the value of the expression $a^2 + 2ab + b^2$ if $a = 6$ and $b = 4$.

A. 68

B. 92

C. 100

D. 121

Three palm trees have different heights. Their heights are consecutive integers. The total of the heights is 18. Which equation represents this situation?
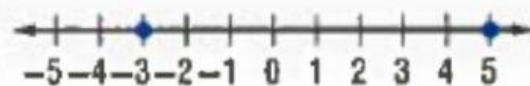
A. $x + 3 = 18$ B. $3x + 3 = 18$

C. $3x = 18$ D. $x - 3 = 18$

Write an equation involving absolute value for the graph.

A. $|x - 1| = 4$ B. $|x + 1| = 4$

C. $|x - 1| = -4$ D. $|x - 4| = 1$

Solve the Equation: $|5t + 4| = -1$

A. $\{-1\}$ B. $\{-1, 1\}$

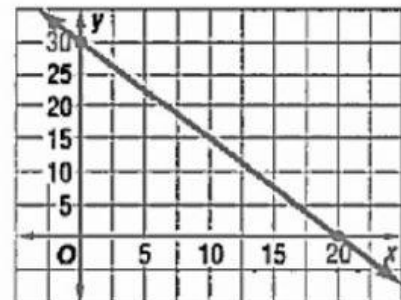C. $\{0, 2\}$ D. *no solution*

Find the x- and y-intercepts of the lin graphed at the right.

A x-intercept is 0; y-intercept is 30.

B x-intercept is 20; y-intercept is 30.

C x-intercept is 20; y-intercept is 0.

D x-intercept is 30; y-intercept is 20.

Find the x- and y-intercepts of the graph of each linear function.

A   x-intercept is 0; y-intercept is 0.

B   x-intercept is 12 ; y-intercept is -24.

C   x-intercept is -12 ; y-intercept is -24.

D   No x-intercept; y-intercept is -24.

Position of Scuba Diver	
Time (s)	Depth (m)
x	y
0	−24
3	−18
6	−12
9	−6
12	0

What are the x- and y-intercepts of the graph of the function?

A   −3, 6

B   6, −3

C   3, −6

D   −6, 3