Revision worksheet for Term-1

What does the algebraic expression $\boldsymbol{4d}$ say in words?

A. The sum of $\boldsymbol{d}$ and **4**

B. **4** times $\boldsymbol{d}$

C. **4** increased by $\boldsymbol{d}$

D. The quotient of $\boldsymbol{d}$ and **4**

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

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

B $\frac{27}{11}$

C 17

D 25

Rewrite the expression $(\boldsymbol{8} - \boldsymbol{3p})(-\boldsymbol{2})$ using the distributive Property.

A. $-16 + 6p$

B. $-10p$

C. $16 - 6p$

D. $10p$

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

A. 68

B. 92

C. 100

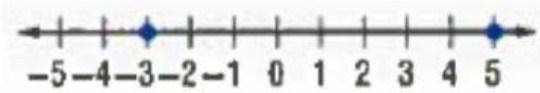
D. 121

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*

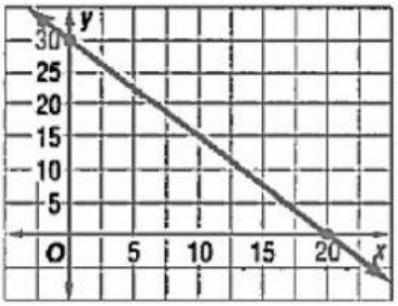
Find the x- and y-intercepts of the lin graphed at the right.

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.

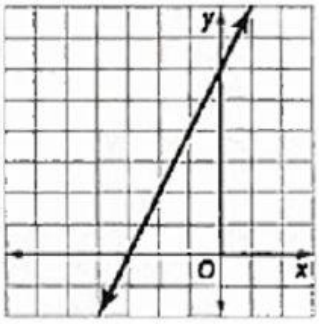
B x-intercept is 12 ; y-intercept is -24.

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