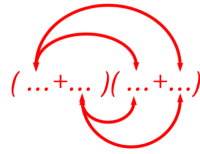


lots of ALGEBRA 5 PLUS ANSWERS

Expand and simplify

$$(3m+5)(m+2)$$

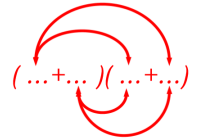


$$3m^2 + 6m + 5m + 10$$

$$3m^2 + 11m + 10$$

Expand and simplify

$$(x-7)^2$$

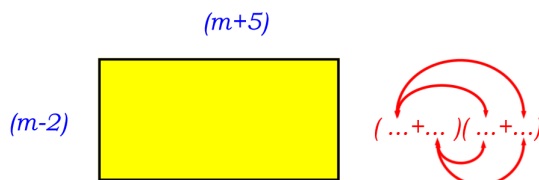


$$(x-7)(x-7)$$

$$x^2 - 7x - 7x + 49$$

$$x^2 - 14x + 49$$

Find the area of this rectangle



$$\text{Area} = (m+5)(m-2)$$

$$m^2 - 2m + 5m - 10$$

$$m^2 + 3m - 10$$

Factorise

$$x^2 + 7x + 10$$

add to multiply to

$$= (x+5)(x+2)$$

Factorise

$$x^2 + 6x - 7$$

add to multiply to

$$= (x+7)(x-1)$$

Factorise

$$x^2 - 2x - 15$$

add to multiply to

$$= (x - 5)(x + 3)$$

Substitute the values

$m = 5$ and $e = -7$ into

$$A = 4m + e^2$$

$$A = 4(5) + (-7)^2$$

$$A = 20 + 49$$

$$A = 69$$

Substitute the values

$m = -2.5$ and $e = -4$ into

$$C = 4(3m - e)$$

$$C = 4(-7.5 - -4)$$

$$C = 4(-3.5)$$

$$C = -14$$

Substitute the values

$m = -3$ and $e = -9$ into

$$E = m^3 + 5e$$

$$E = (-3)^3 + 5(-9)$$

$$E = -27 - 45$$

$$E = -72$$

Substitute the values

$m = -5$ and $e = -4$ into

$$J = 2(m+e)^2$$

$$J = 2(-5+(-4))^2$$

$$J = 2(-9)^2$$

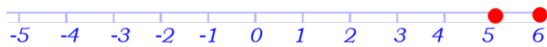
$$J = 162$$

Solve this inequality

$$2n > 8$$

and show the integer solutions on this numberline

$$n > 4$$



integer means
whole number

Substitute the values

$m = 5$ and $e = -4$ into

$$H = \frac{2m^2}{e+1}$$

$$H = \frac{2(5)^2}{-4+1}$$

$$H = \frac{50}{-3}$$

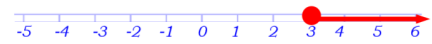
$$H = -16\frac{2}{3}$$

Solve this inequality

$$n+3 \geq 6$$

and show this on this numberline

$$n \geq 3$$



empty circle means
 $n > 1$

filled in circle means
 $n \geq 1$

Solve this inequality

$$2n+3 > 11$$

and show this on this numberline

$$2n > 8$$

$$n > 4$$



empty circle means
 $n > 1$

filled in circle means
 $n \geq 1$

Solve this inequality

$$-6 < 3n \leq 12$$

and show this on this numberline

$\div 3$ $\div 3$ $\div 3$ each term

$$-2 < n \leq 4$$



empty circle means
 $-2 < n < 5$

filled in circle means
 $-2 \leq n \leq 5$

Solve this inequality

$$-7 \leq 4n+1 \leq 13$$

and show this on this numberline

$\div 4$ $\div 4$ $\div 4$ each term

$$-8 \leq 4n \leq 12$$

$$-2 \leq n \leq 3$$



empty circle means
 $-2 < n < 5$

filled in circle means
 $-2 \leq n \leq 5$