

1. Three brothers, Fred, Mark, and Joey decide to invest money together. Fred invests \$3000 more than Mark, and Joey invests \$2000 less than twice what Fred invests. What is the difference between Jeff's investment and Fred's (simplified algebraic expression)?

F	M	J
$M+3000$	M	$2(M+3000)-2000$

$$2(M+3000) - 2000 - (M+3000)$$

$$2M + 6000 - 2000 - M - 3000$$

$$M + 1000$$

2. Gerry bought 3 items at the store. The first item costs x dollars, the second item costs triple the first item, and the third item costs a quarter as much as the first item. Give the simplified algebraic expression to represent the average of these three items.

1	2	3
x	$3x$	$\frac{x}{4}$

$$\frac{x + 3x + \frac{x}{4}}{3}$$

$$\frac{4.25x}{3}$$

$$1.42x$$

3. If n represents the smallest of 3 consecutive even numbers, what is the simplified algebraic expression for the sum of these 3 numbers?

1	2	3
n	$n+2$	$n+4$

$$n + n+2 + n+4$$

$$3n+6$$


4. If n represents the smallest of 3 consecutive whole numbers, what is the simplified algebraic expression for the sum of these 3 numbers?

1	2	3
n	$n+1$	$n+2$

$$n + n+1 + n+2$$

$$3n+3$$

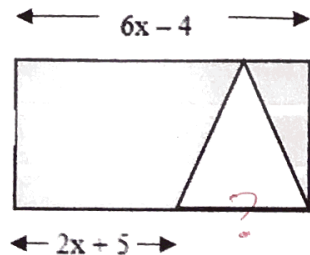
5. The length of a rectangular field is 5m more than twice its width. What simplified algebraic expression represents the perimeter of this rectangle?

$2w+5$


$P = \frac{w + w + 2w+5 + 2w+5}{2}$

$$6w+10$$

6. Determine the simplified algebraic expression of the shaded area.



$$3(6x-4) - \frac{(2x+5)(3)}{2}$$

$$18x - 12 - (3x + 7.5)$$

$$18x - 12 - 3x - 7.5$$

$$15x - 19.5$$