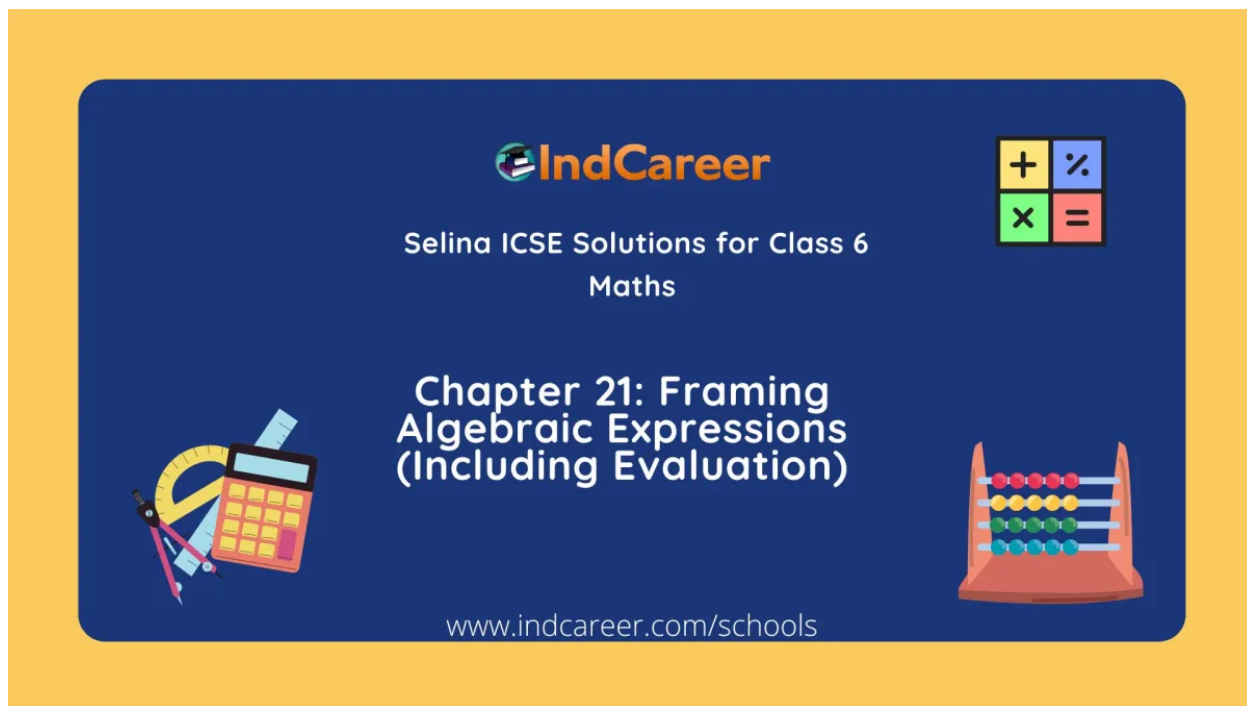


Selina Class 6 ICSE Solutions Mathematics : Chapter 21- Framing Algebraic Expressions (Including Evaluation)



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Chapter 21- Framing Algebraic Expressions

(Including Evaluation)

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Selina Class 6 ICSE Solutions Mathematics : Chapter 21- Framing Algebraic Expressions (Including Evaluation)

Selina 6th Maths Chapter 21, Class 6 Maths Chapter 21 solutions

Exercise 21

1. Write in the form of an algebraic expression:

- (i) Perimeter (P) of a rectangle is two times the sum of its length (l) and its breadth (b).
- (ii) Perimeter (P) of a square is four times its side.
- (iii) Area of a square is square of its side.
- (iv) Surface area of a cube is six times the square of its edge.

Solution:

(i) Let us assume the length be l, breadth be b and perimeter be P. Then the algebraic expression for the given statement is written as,

$$P = 2(l + b)$$

(ii) Let us assume the side be s and area be A. Then the algebraic expression for the given statement is written as,

$$P = 4s$$

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(iii) Let us assume the side be s and area be A . Then the algebraic expression for the given statement is written as,

$$A = (s)^2$$

(iv) Let us assume the surface area be S and edge be a . Then the algebraic expression for the given statement is written as,

$$S = 6(a)^2$$

2. Express each of the following as an algebraic expression:

(i) The sum of x and y minus m .

(ii) The product of x and y divided by m .

(iii) The subtraction of $5m$ from $3n$ and then adding $9p$ to it.

(iv) The product of 12 , x , y and z minus the product of 5 , m and n .

(v) Sum of p and $2r - s$ minus sum of a and $3n + 4x$.

Solution:

(i) The algebraic expression for the given sentence is given below

$$x + y - m$$

(ii) The algebraic expression for the given sentence is given below

$$xy / m$$

(iii) The algebraic expression for the given sentence is given below

$$3n - 5m + 9p$$

(iv) The algebraic expression for the given sentence is given below

$$12xyz - 5mn$$

(v) The algebraic expression for the given statement is given below

$$p + 2r - s - (a + 3n + 4x)$$

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3. Construct a formula for the following:

Total wages (Rs W) of a man whose basic wage is (Rs B) for t hours week plus (Rs R) per hour, if he works a total of T hours.

Solution:

The wages for t hours is Rs B.

The wages for overtime is $R(T - t)$

Hence, the total wages is calculated as given below,

$$W = B + R(T - t)$$

4. If $x = 4$, evaluate:

(i) $3x + 8$

(ii) $x^2 - 2x$

(iii) $x^2 / 2$

Solution:

(i) $3x + 8$

The value of $3x + 8$ for $x = 4$ is calculated as below

Now, substituting $x = 4$ in the given equation, we get

$$3x + 8 = 3 \times 4 + 8$$

$$= 12 + 8$$

$$= 20$$

Therefore, the value of $3x + 8$ for $x = 4$ is 20

(ii) $x^2 - 2x$

The value of $x^2 - 2x$ for $x = 4$ is calculated as below

Now, substituting $x = 4$ in the given equation, we get

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$$x^2 - 2x = 4^2 - 2 \times 4$$

$$= 16 - 8$$

$$= 8$$

Therefore, the value of $x^2 - 2x$ for $x = 4$ is 8

(iii) $x^2 / 2$

The value of $x^2 / 2$ for $x = 4$ is calculated as below

$$x^2 / 2 = 4^2 / 2$$

$$= 16 / 2$$

$$= 8$$

Therefore, the value of $x^2 / 2$ for $x = 4$ is 8

5. If $m = 6$, evaluate:

(i) $5m - 6$

(ii) $2m^2 + 3m$

(iii) $(2m)^2$

Solution:

(i) $5m - 6$

The value of $5m - 6$ for $m = 6$ is calculated as below

Now, substituting the value of $m = 6$ in the given equation, we get

$$5m - 6 = 5 \times 6 - 6$$

$$= 30 - 6$$

$$= 24$$

Hence, the value of $5m - 6$ for $m = 6$ is 24

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(ii) $2m^2 + 3m$

The value of $2m^2 + 3m$ for $m = 6$ is calculated as below

Now, substituting the value of $m = 6$ in the given equation, we get

$$2m^2 + 3m = 2(6)^2 + 3(6)$$

$$= 2 \times 36 + 3 \times 6$$

$$= 72 + 18$$

$$= 90$$

Hence, the value of $2m^2 + 3m$ for $m = 6$ is 90

(iii) $(2m)^2$

The value of $(2m)^2$ for $m = 6$ is calculated as below

Now, substituting the value of $m = 6$ in the given equation, we get

$$(2m)^2 = (2 \times 6)^2$$

$$= 12^2$$

$$= 144$$

Hence, the value of $(2m)^2$ for $m = 6$ is 144

6. If $x = 4$, evaluate:

(i) $12x + 7$

(ii) $5x^2 + 4x$

(iii) $x^2 / 8$

Solution:

(i) $12x + 7$

The value of $12x + 7$ for $x = 4$ is calculated as follows,

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Substituting the value of $x = 4$ in the given equation, we get

$$12x + 7 = 12 \times 4 + 7$$

$$= 48 + 7$$

$$= 55$$

Therefore, the value of $12x + 7$ for $x = 4$ is 55

(ii) $5x^2 + 4x$

The value of $5x^2 + 4x$ for $x = 4$ is calculated as follows,

Substituting the value of $x = 4$ in the given equation, we get

$$5x^2 + 4x = 5 \times 4^2 + 4 \times 4$$

$$= 5 \times 16 + 16$$

$$= 80 + 16$$

$$= 96$$

Therefore, the value of $5x^2 + 4x$ for $x = 4$ is 96

(iii) $x^2 / 8$

The value of $x^2 / 8$ for $x = 4$ is calculated as follows,

$$x^2 / 8 = 4^2 / 8$$

We get,

$$= 16 / 8$$

$$= 2$$

Therefore, the value of $x^2 / 8$ for $x = 4$ is 2

7. If $m = 2$, evaluate:

(i) $16m - 7$

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(ii) $15m^2 - 10m$

(iii) $1/4 \times m^3$

Solution:

(i) $16m - 7$

The value of $16m - 7$ for $m = 2$ is calculated as below,

$$16m - 7 = 16 \times 2 - 7$$

$$= 32 - 7$$

We get,

$$= 25$$

Hence, the value of $16m - 7$ for $m = 2$ is 25

(ii) $15m^2 - 10m$

The value of $15m^2 - 10m$ for $m = 2$ is calculated as below,

$$15m^2 - 10m = 15 \times 2^2 - 10 \times 2$$

$$= 15 \times 4 - 20$$

$$= 60 - 20$$

We get,

$$= 40$$

Hence, the value of $15m^2 - 10m$ for $m = 2$ is 40

(iii) $1/4 \times m^3$

The value of $1/4 \times m^3$ for $m = 2$ is calculated as below,

$$1/4 \times m^3 = 1/4 \times 2^3$$

We get,

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$$= 1 / 4 \times 8$$

$$= 2$$

Hence, the value of $1 / 4 \times m^3$ for $m = 2$ is 2

8. If $x = 10$, evaluate:

(i) $100x + 225$

(ii) $6x^2 - 25x$

(iii) $1 / 50 \times x^3$

Solution:

(i) $100x + 225$

The value of $100x + 225$ for $x = 10$ is calculated as follows,

$$100x + 225 = 100 \times 10 + 225$$

$$= 1000 + 225$$

We get,

$$= 1225$$

Therefore, the value of $100x + 225$ for $x = 10$ is 1225

(ii) $6x^2 - 25x$

The value of $6x^2 - 25x$ for $x = 10$ is calculated as follows,

$$6x^2 - 25x = 6 \times 10^2 - 25 \times 10$$

$$= 6 \times 100 - 250$$

$$= 600 - 250$$

We get,

$$= 350$$

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Therefore, the value of $6x^2 - 25x$ for $x = 10$ is 350

(iii) $1 / 50 \times x^3$

The value of $1 / 50 \times x^3$ for $x = 10$ is calculated as follows,

$$1 / 50 \times x^3 = 1 / 50 \times 10^3$$

$$= 1 / 50 \times 1000$$

We get,

$$= 20$$

Therefore, the value of $1 / 50 \times x^3$ for $x = 10$ is 20

9. If $a = -10$, evaluate:

(i) $5a$

(ii) a^2

(iii) a^3

Solution:

(i) $5a$

The value of $5a$ for $a = -10$ is calculated as shown below,

$$5a = 5 \times (-10)$$

We get,

$$= -50$$

Therefore, the value of $5a$ for $a = -10$ is -50

(ii) a^2

The value of a^2 for $a = -10$ is calculated as shown below,

$$a^2 = (-10)^2$$

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$$= 100$$

Therefore, the value of a^2 for $a = -10$ is 100

(iii) a^3

The value of a^3 for $a = -10$ is calculated as shown below,

$$a^3 = (-10)^3$$

$$= -1000$$

Therefore, the value of a^3 for $a = -10$ is -1000

10. If $x = -6$, evaluate:

(i) $11x$

(ii) $4x^2$

(iii) $2x^3$

Solution:

(i) $11x$

The value of $11x$ for $x = -6$ is calculated as follows,

$$11x = 11 \times (-6)$$

We get,

$$= -66$$

Hence, the value of $11x$ for $x = -6$ is -66

(ii) $4x^2$

The value of $4x^2$ for $x = -6$ is calculated as follows,

$$4x^2 = 4 \times (-6)^2$$

We get,

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$$= 4 \times 36$$

$$= 144$$

Hence, the value of $4x^2$ for $x = -6$ is 144

(iii) $2x^3$

The value of $2x^3$ for $x = -6$ is calculated as follows,

$$2x^3 = 2 \times (-6)^3$$

We get,

$$= 2 \times (-216)$$

$$= -432$$

Hence, the value of $2x^3$ for $x = -6$ is -432

11. If $m = -7$, evaluate:

(i) $12m$

(ii) $2m^2$

(iii) $2m^3$

Solution:

(i) $12m$

The value of $12m$ for $m = -7$ is calculated as below,

$$12m = 12 \times (-7)$$

We get,

$$= -84$$

Therefore, the value of $12m$ for $m = -7$ is -84

(ii) $2m^2$

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The value of $2m^2$ for $m = -7$ is calculated as below,

$$2m^2 = 2 \times (-7)^2$$

We get,

$$= 2 \times 49$$

$$= 98$$

Therefore, the value of $2m^2$ for $m = -7$ is 98

(iii) $2m^3$

The value of $2m^3$ for $m = -7$ is calculated as below,

$$2m^3 = 2 \times (-7)^3$$

We get,

$$= 2 \times (-343)$$

$$= -686$$

Therefore, the value of $2m^3$ for $m = -7$ is -686

12. Find the average (A) of four quantities p, q, r and s. If $A = 6$, $p = 3$, $q = 5$ and $r = 7$; find the value of s.

Solution:

The average of four quantities p, q, r and s is calculated as,

$$A = (p + q + r + s) / 4$$

Substituting the given values in the above expression, we get

$$6 = (3 + 5 + 7 + s) / 4$$

$$6 \times 4 = 3 + 5 + 7 + s$$

$$24 = 15 + s$$

$$s = 24 - 15$$

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We get,

$$s = 9$$

Hence, the value of s is 9

13. If $a = 5$ and $b = 6$, evaluate:

(i) $3ab$

(ii) $6a^2b$

(iii) $2b^2$

Solution:

(i) $3ab$

The value of $3ab$ for $a = 5$ and $b = 6$ is calculated as follows,

$$3ab = 3 \times a \times b$$

$$= 3 \times 5 \times 6$$

We get,

$$= 90$$

Therefore, the value of $3ab$ if $a = 5$ and $b = 6$ is 90

(ii) $6a^2b$

The value of $6a^2b$ for $a = 5$ and $b = 6$ is calculated as follows,

$$6a^2b = 6 \times a \times a \times b$$

$$= 6 \times 5 \times 5 \times 6$$

We get,

$$= 6 \times 25 \times 6$$

$$= 900$$

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Therefore, the value of $6a^2b$ if $a = 5$ and $b = 6$ is 900

(iii) $2b^2$

The value of $2b^2$ for $a = 5$ and $b = 6$ is calculated as follows,

$$2b^2 = 2 \times b \times b$$

$$= 2 \times 6 \times 6$$

$$= 2 \times 36$$

$$= 72$$

Therefore, the value of $2b^2$ if $a = 5$ and $b = 6$ is 72

14. If $x = 8$ and $y = 2$, evaluate:

(i) $9xy$

(ii) $5x^2y$

(iii) $(4y)^2$

Solution:

(i) $9xy$

The value of $9xy$ for $x = 8$ and $y = 2$ is calculated as follows,

$$9xy = 9 \times x \times y$$

$$9xy = 9 \times 8 \times 2$$

$$9xy = 144$$

Hence, the value of $9xy$ for $x = 8$ and $y = 2$ is 144

(ii) $5x^2y$

The value of $5x^2y$ for $x = 8$ and $y = 2$ is calculated as follows,

$$5x^2y = 5 \times x \times x \times y$$

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$$= 5 \times 8 \times 8 \times 2$$

$$= 640$$

Hence, the value of $5x^2y$ for $x = 8$ and $y = 2$ is 640

(iii) $(4y)^2$

The value of $(4y)^2$ for $x = 8$ and $y = 2$ is calculated as follows,

$$(4y)^2 = (4 \times 2)^2$$

$$= (8)^2$$

$$= 64$$

Hence, the value of $(4y)^2$ for $x = 8$ and $y = 2$ is 64

15. If $x = 5$ and $y = 4$, evaluate:

(i) $8xy$

(ii) $3x^2y$

(iii) $3y^2$

Solution:

(i) $8xy$

The value of $8xy$ for $x = 5$ and $y = 4$ is calculated as follows,

$$8xy = 8 \times x \times y$$

$$= 8 \times 5 \times 4$$

$$= 160$$

Therefore, the value of $8xy$ for $x = 5$ and $y = 4$ is 160

(ii) $3x^2y$

The value of $3x^2y$ for $x = 5$ and $y = 4$ is calculated as follows,

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$$3x^2y = 3 \times x \times x \times y$$

$$= 3 \times 5 \times 5 \times 4$$

$$= 15 \times 20$$

$$= 300$$

Therefore, the value of $3x^2y$ for $x = 5$ and $y = 4$ is 300

(iii) $3y^2$

The value of $3y^2$ for $x = 5$ and $y = 4$ is calculated as follows,

$$3y^2 = 3 \times y \times y$$

$$= 3 \times 4 \times 4$$

$$= 48$$

Therefore, the value of $3y^2$ for $x = 5$ and $y = 4$ is 48

16. If $y = 5$ and $z = 2$, evaluate:

(i) $100yz$

(ii) $9y^2z$

(iii) $5y^2$

(iv) $(5z)^3$

Solution:

(i) $100yz$

The value of $100yz$ for $y = 5$ and $z = 2$ is calculated as below,

$$100yz = 100 \times y \times z$$

$$= 100 \times 5 \times 2$$

$$= 100 \times 10$$

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$$= 1000$$

Hence, the value of $100yz$ for $y = 5$ and $z = 2$ is 1000

(ii) $9y^2z$

The value of $9y^2z$ for $y = 5$ and $z = 2$ is calculated as below,

$$9y^2z = 9 \times y \times y \times z$$

$$= 9 \times 5 \times 5 \times 2$$

We get,

$$= 45 \times 10$$

$$= 450$$

Hence, the value of $9y^2z$ for $y = 5$ and $z = 2$ is 450

(iii) $5y^2$

The value of $5y^2$ for $y = 5$ and $z = 2$ is calculated as below,

$$5y^2 = 5 \times y \times y$$

$$= 5 \times 5 \times 5$$

We get,

$$= 125$$

Hence, the value of $5y^2$ for $y = 5$ and $z = 2$ is 125

(iv) $(5z)^3$

The value of $(5z)^3$ for $y = 5$ and $z = 2$ is calculated as below,

$$(5z)^3 = (5 \times z)^3$$

$$= (5 \times 2)^3$$

$$= (10)^3$$

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$$= 1000$$

Hence, the value of $(5z)^3$ for $y = 5$ and $z = 2$ is 1000

17. If $x = 2$ and $y = 10$, evaluate:

(i) $30xy$

(ii) $50xy^2$

(iii) $(10x)^2$

(iv) $5y^2$

Solution:

(i) $30xy$

The value of $30xy$ for $x = 2$ and $y = 10$ is calculated as follows,

$$30xy = 30 \times x \times y$$

$$= 30 \times 2 \times 10$$

$$= 600$$

Therefore, the value of $30xy$ for $x = 2$ and $y = 10$ is 600

(ii) $50xy^2$

The value of $50xy^2$ for $x = 2$ and $y = 10$ is calculated as follows,

$$50xy^2 = 50 \times x \times y \times y$$

$$= 50 \times 2 \times 10 \times 10$$

$$= 10000$$

Therefore, the value of $50xy^2$ for $x = 2$ and $y = 10$ is 10000

(iii) $(10x)^2$

The value of $(10x)^2$ for $x = 2$ and $y = 10$ is calculated as follows,

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$$(10x)^2 = (10 \times x)^2$$

$$= (10 \times 2)^2$$

We get,

$$= (20)^2$$

$$= 400$$

Therefore, the value of $(10x)^2$ for $x = 2$ and $y = 10$ is 400

(iv) $5y^2$

The value of $5y^2$ for $x = 2$ and $y = 10$ is calculated as follows,

$$5y^2 = 5 \times y \times y$$

$$= 5 \times 10 \times 10$$

$$= 5 \times 100$$

$$= 500$$

Therefore, the value of $5y^2$ for $x = 2$ and $y = 10$ is 500

18. If $m = 3$ and $n = 7$, evaluate:

(i) $12mn$

(ii) $5mn^2$

(iii) $(10m)^2$

(iv) $4n^2$

Solution:

(i) $12mn$

The value of $12mn$ for $m = 3$ and $n = 7$ is calculated as follows,

$$12mn = 12 \times m \times n$$

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$$= 12 \times 3 \times 7$$

$$= 252$$

Hence, the value of $12mn$ for $m = 3$ and $n = 7$ is 252

(ii) $5mn^2$

The value of $5mn^2$ for $m = 3$ and $n = 7$ is calculated as follows,

$$5mn^2 = 5 \times m \times n^2$$

$$= 5 \times 3 \times 7^2$$

$$= 5 \times 3 \times 7 \times 7$$

$$= 735$$

Hence, the value of $5mn^2$ for $m = 3$ and $n = 7$ is 735

(iii) $(10m)^2$

The value of $(10m)^2$ for $m = 3$ and $n = 7$ is calculated as follows,

$$(10m)^2 = (10 \times m)^2$$

$$= (10 \times 3)^2$$

$$= (30)^2$$

$$= 900$$

Hence, the value of $(10m)^2$ for $m = 3$ and $n = 7$ is 900

(iv) $4n^2$

The value of $4n^2$ for $m = 3$ and $n = 7$ is calculated as follows,

$$4n^2 = 4 \times n^2$$

$$= 4 \times 7^2$$

$$= 4 \times 7 \times 7$$

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$$= 196$$

Hence, the value of $4n^2$ for $m = 3$ and $n = 7$ is 196

19. If $a = -10$, evaluate:

(i) $3a - 2$

(ii) $a^2 + 8a$

(iii) $1/5 \times a^2$

Solution:

(i) $3a - 2$

The value of $3a - 2$ for $a = -10$ is calculated as follows,

$$3a - 2 = 3 \times (-10) - 2$$

We get,

$$= -30 - 2$$

$$= -32$$

Therefore, the value of $3a - 2$ for $a = -10$ is -32

(ii) $a^2 + 8a$

The value of $a^2 + 8a$ for $a = -10$ is calculated as follows,

$$a^2 + 8a = (-10)^2 + 8 \times (-10)$$

$$= 100 - 80$$

$$= 20$$

Therefore, the value of $a^2 + 8a$ for $a = -10$ is 20

(iii) $1/5 \times a^2$

The value of $1/5 \times a^2$ for $a = -10$ is calculated as follows,

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$$1 / 5 \times a^2 = 1 / 5 \times (-10)^2$$

$$= 1 / 5 \times 100$$

We get,

$$= 20$$

Therefore, the value of $1 / 5 \times a^2$ for $a = -10$ is 20

20. If $x = -6$, evaluate:

(i) $4x - 9$

(ii) $3x^2 + 8x$

(iii) $x^2 / 2$

Solution:

(i) $4x - 9$

The value of $4x - 9$ for $x = -6$ is calculated as follows,

$$4x - 9 = 4 \times (-6) - 9$$

$$= -24 - 9$$

$$= -33$$

Hence, the value of $4x - 9$ for $x = -6$ is -33

(ii) $3x^2 + 8x$

The value of $3x^2 + 8x$ for $x = -6$ is calculated as follows,

$$3x^2 + 8x = 3 \times (-6)^2 + 8 \times (-6)$$

We get,

$$= 3 \times 36 - 48$$

$$= 108 - 48$$

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$$= 60$$

Hence, the value of $3x^2 + 8x$ for $x = -6$ is 60

(iii) $x^2 / 2$

The value of $x^2 / 2$ for $x = -6$ is calculated as follows,

$$x^2 / 2 = (-6)^2 / 2$$

We get,

$$= 36 / 2$$

$$= 18$$

Hence, the value of $x^2 / 2$ for $x = -6$ is 18



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- Chapter 25- Properties of Angles and Lines
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