Pakistan School, Kingdom Of Bahrain

E-Support and Learning Material

**Subject : Maths**  **Grade: 6**

**Chapter:** 1 **Algebra** Page No. 1

**Topic:** Simplifying and Evaluating Algebraic Expressions.

**Recap** : Solve page Nos. 1 and 2

**Topic:** Simplifying algebraic expressions. Page No. 3

Q.1 is solved in book page No. 3

Q.2 Simplify 2q + 4q

 2q 4q

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  q |  q |  q |  q |  q |  q |

 2q = q + q

 4q = q + q + q + q

 ?

2 q + 4 q = q + q + q + q + q + q

 = 6q

**H.W**

Solve Q.Nos. 3, 4 and 5 ( a, b, c, d ) ( page Nos. 3 & 4 )

Q.6 is solved in book page No.4

Q.7 Simplify 5$χ$ – 3$χ$

 5$χ$

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  $ χ$ |  $ χ$ |  $ χ$ |  $ χ$ |  $ χ$  |   |

 3$χ$ ?

5$χ$ – 3$χ$ = 2$χ$

**H.W**

Solve Q. Nos. 8, 9 and 10 ( a, b, c, d ) ( page No.5 )

Chapter 1 page No. 5

**Example : 1**

2$χ+χ$ + 2 = 3$χ$ + 2 (is correct answer)

3$χ+$ 2 = 5$χ$ ( is wrong answer )

(Because 3$χ $and 2 are unlike terms in ‘3$χ$’ with 3 there is $χ$ also, which is called

‘variable’ (unknown) value and with ‘2’ there is no variable)

So unlike terms can not be added or subtracted.

**Example: 2**

5y – 4 (can not be solved)

(Because they are unlike Terms, with 5 there is variable ‘y’ but 4 does not have

any variable) so we can not subtract.

Q.11 and 12 are solved in book page Nos. 5 and 6

**H.W**

Solve Q. 13 ( a, b, c, d )

**Topic** : **Evaluating algebraic expressions** ( page 6 )

Q.14 is solved in book on page 6

Q.15 Find the value of a + b when b = 2

 9 + b = 9 + 2 ( substitute b with 2 )

 = 11

**H.W**

Solve Q. Nos. 16, 17, 18 and 19 ( a, b, c, d, e, f )

 for Q. Nos. 16 and 17 use “DMAS” method.

 (Division, multiplication, addition then subtraction) ( page Nos. 6 and 7 )

 “For practice” **H.W**

Do Q. Nos. 1, 2 and 3 all parts

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**Topic** : **Solving word problems** **Lesson 2**

Q. 1 Find the number represented by each shape.

(a) + 12 = 40 (b) 31 ̶ = 1

Solution:

 + 12 = 40 − = 1 – 31

 = 40 ̶ 12 − = − 30

 = 28 Ans. = 30 Ans.

Q. 1 (c) 9 x = 27 (d) 24 ÷ = 3

 = $\frac{27}{9}$ 24 = 3 x

 = 3 = $\frac{24}{3}$

 = 8

 **H.W**

Solve Q. 2 ( a, b, c, d, e, f, g, h ) Page No.8

 $n$ cm

Q.1 Page No. 9 has been solved in book

Q.2 Page No. 9 ($n+2) cm$ 2$ n$ cm

 The diagram shows a

 4-sided figure and the

 lengths of its sides. 3$ n$ cm

(a) Find the perimeter of the figure in terms of$ n$.

 Solution : Perimeter = $n$ + $n$ + 2 + 3 $n$ + 2 $n$

 = ( 7$ n $+ 2 ) cm

 The perimeter of the figure is ( 7$ n$ + 2 ) cm.

(b) When $n$ = 4, find the perimeter of the figure.

Solution : Perimeter = 7$n$ + 2

 = 7 x 4 + 2

 = 28 + 2

 = 30 cm

The perimeter of the figure is 30 cm.

 **H.W**

Solve work problems 3, 4, 5, 6, 7 and 8. Page Nos. 10, 11, 12, 13 and 14.