

Mathematics

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(Chapter - 11) (Algebra)

(Class - VI)

Exercise 11.3

Question 1:

Make up as many expressions with numbers (no variables) as you can from three numbers 5, 7 and 8. Every number should be used not more than once. Use only addition, subtraction and multiplication.

(Hint: Three possible expressions are $5 + (8 - 7)$, $5 - (8 - 7)$, $(5 \times 8) + 7$ make the other expressions)

Answer 1:

(a) $(8 \times 5) - 7$

(b) $(8 + 5) - 7$

(c) $(8 \times 7) - 5$

(d) $(8 + 7) - 5$

(e) $5 \times (7 + 8)$

(f) $5 + (7 \times 8)$

(g) $5 + (8 - 7)$

(h) $5 - (7 + 8)$

Question 2:

Which out of the following are expressions with numbers only:

(a) $y + 3$

(b) $(7 \times 20) - 8z$

(c) $5(21 - 7) + 7 \times 2$

(d) 5

(e) $3x$

(f) $5 - 5n$

(g) $(7 \times 20) - (5 \times 10) - 45 + p$

Answer 2:

(c) and (d)

Question 3:

Identify the operations (addition, subtraction, division, multiplication) in forming the following expressions and tell how the expressions have been formed:

(a) $z + 1, z - 1, y + 17, y - 17$

(b) $17y, \frac{y}{17}, 5z$

(c) $2y + 17, 2y - 17$

(d) $7m, -7m + 3, -7m - 3$

Answer 3:

(a) $z + 1 \rightarrow$ Addition

$z - 1 \rightarrow$ Subtraction

$y + 17 \rightarrow$ Addition

$y - 17 \rightarrow$ Subtraction

(b) $17y \rightarrow$ Multiplication

$\frac{y}{17} \rightarrow$ Division

$5z \rightarrow$ Multiplication

(c) $2y + 17 \rightarrow$ Multiplication and Addition

$2y - 17 \rightarrow$ Multiplication and Subtraction

(d) $7m \rightarrow$ Multiplication

$-7m + 3 \rightarrow$ Multiplication and Addition

$-7m - 3 \rightarrow$ Multiplication and Subtraction

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Question 4:

Give expressions for the following cases:

- (a) 7 added to p . (b) 7 subtracted from p . (c) p multiplied by 7.
(d) p divided by 7. (e) 7 subtracted from $-m$. (f) $-p$ multiplied by 5.
(g) $-p$ divided by 5. (h) p multiplied by -5 .



Answer 4:

- (a) $p + 7$ (b) $p - 7$ (c) $7p$
(d) $\frac{p}{7}$ (e) $-m - 7$ (f) $-5p$
(g) $\frac{-p}{5}$ (h) $-5p$

Question 5:

Give expression in the following cases:

- (a) 11 added to $2m$.
(b) 11 subtracted from $2m$.
(c) 5 times y to which 3 is added.
(d) 5 times y from which 3 is subtracted.
(e) y is multiplied by -8 .
(f) y is multiplied by -8 and then 5 is added to the result.
(g) y is multiplied by 5 and result is subtracted from 16.
(h) y is multiplied by -5 and the result is added to 16.



Answer 5:

- (a) $2m + 11$ (b) $2m - 11$ (c) $5y + 3$
(d) $5y - 3$ (e) $-8y$ (f) $-8y + 5$
(g) $16 - 5y$ (h) $-5y + 16$

Question 6:

- (a) From expressions using t and 4. Use not more than one number operation. Every expression must have t in it.
(b) Form expressions using y , 2 and 7. Every expression must have y in it. Use only two number operations. These should be different.



Answer 6:

- (a) $t + 4, t - 4, 4 - t, 4t, \frac{t}{4}, \frac{4}{t}$
(b) $2y + 7, 2y - 7, 7y + 2, 7y - 2$ and so on.