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Worksheet on Variable Expressions - 1

Q1) Let ‘x’ and ‘y’ be the length and breadth of a rectangle. Which of the following variable expressions represents the perimeter of the rectangle?

a) 2 (x + y)

b) 2xy

c) 2 + xy

Q2) Jimmy and Jolly are sisters. When Jimmy is 10 years old, Jolly is 8 years old. If Jolly’s age is x years, then what would be Jimmy’s age?

Q3) Find the value of the expression 3p + 7 for p = 5.

Q4) Match column 1 with their respective variable expressions in column 2.

a) y divided by 5	i) -7p
b) sum of 4 and x	ii) z - 6
c) p multiplied by -7	iii) $\frac{5}{y}$
d) 6 subtracted from z	iv) x + 4

Q5) Identify the operations used in the following variable expression and choose the option that tells how the expression has been formed.

$$3m - 7$$

a) m multiplied by 7 and 3 subtracted from the product.
b) m multiplied by 3 and 7 subtracted from the product.
c) m multiplied by 7 and 3 added to the product.
d) m multiplied by 3 and 7 added to the product.

Q6) Take Tim's present age be 't' years. If Tim's grandfather is 5 times his age, what is the age of his grandfather?

Q7) Write a variable expression for the sum of x and 77.

Q8) Mariam is planting flowers in her garden. If n is the number of rows and there are 6 flowers in one row, then write a variable expression for the number of flowers in the garden.

Q9) Which of the following is a variable expression containing numbers only?

a) $3 \times (x + 7)$
b) $y - 8$
c) $(5 + 8) \times (-9 + 7)$

Q10) Which of the following shows variable expressions using 6 and p.

a) $6 \times (p - 5)$

b) $6 - p$

c) $6p$

d) $(6 + p) \times (p - 6)$

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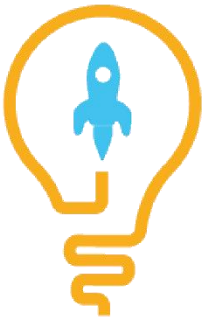

ANSWERS

1)	1) a) 2 (x + y)
2)	(x + 2) years
3)	22
4)	a) - iii), b) - iv) , c) - i), d) - ii)
5)	b)
6)	5t
7)	x + 77
8)	6n
9)	(5 + 8) × (-9 + 7)
10)	b), c), d)

FUN FACT

1. Given a variable, we can form an infinite number of expressions.
2. A constant is also an expression.
3. An equation is formed using expression.