

INDIAN SCHOOL AL WADI AL KABIR


Class VII, Mathematics

WORKSHEET- (MCQ)

DIRECT & INVERSE PROPORTION

Multiple Choice questions

Q.1.	If the cost of 12 books is ₹ 450, then the cost of 16 books is:							
	A	₹ 500	B	₹ 615	C	₹ 650	D	₹ 600
Q.2.	If two quantities x and y are in direct proportion, then:							
	A	$x + y$ remains constant	B	$\frac{x}{y}$ remains constant	C	$x - y$ remains constant	D	$x \times y$ remains constant
Q.3.	x and y are in direct proportion. When x is 8, y is 12. Which of the following is not a possible pair of corresponding values of x and y ?							
	A	10 and 15	B	2 and 3	C	6 and 9	D	15 and 20
Q.4.	A car can cover a distance of 210 km in 5 hours. It can cover a distance of 546 km with the same speed in:							
	A	13 hours	B	12 hours	C	$12\frac{1}{2}$ hours	D	None of these
Q.5.	A garrison of 300 men had food for 20 days. However, 50 men leave. Now the food will last:							
	A	26 days	B	24 days	C	120 days	D	18 days
Q.6.	An electric pole, 14m high, casts a shadow of 10m. Find the height of a tree that casts a shadow of 15m under similar conditions.							
	A	19m	B	29m	C	21m	D	20m
Q.7.	12 men can dig 8m long trench in a day. How many men should be employed for digging 50m long trench of the same type in one day?							
	A	75	B	25	C	50	D	96
Q8.	The perimeter of a square and its side is in:							
	A	Direct Proportion	B	Indirect Proportion	C	Neither direct nor indirect	D	Cannot be determined
Q9	The fuel consumption of a vehicle is 6.8 L per 102 km. What distance can this vehicle cover in 24 L of fuel?							

	A	320.5 km	B	382.5 km	C	693.6 km	D	163.2 km	
Q10	If 100 students took 20 days to clean a garden. How many days it will take to clean the garden if 25 more students are added?								
	A	10	B	12	C	18	D	16	
FILL IN THE BLANKS									
Q11	32 men can reap a field in 15 days. Then, 20 men reap the same field in ----- number of days.								
Q12	The cost of 2 dozen of oranges is ₹ 48. Then the cost of 108 oranges is -----.								
Q13	6 men can complete a work in 32 days. How many men can complete the work in 8 days?								
Q14	x varies inversely with y. When $x=6$, then $y= 8$. When $x= 8$, the value of y is -----.								
Q15	A train is moving at a uniform speed of 75 km/hour. How far will it travel in 20 minutes?								
	<p>CASE STUDY: Ramayah was running a hostel for college students near the college. The hostel was very famous for its cleanliness and discipline. At this context, answer the following questions:</p>								
Q 16	There are 125 students in a hostel. Food provision for them is for 16 days. How long will these provisions last, if 75 more students join the group?								
	A	20 days	B	10 days	C	15 days	D	12 days	
Q 17	24 fans are fixed in 12 rooms. How many fans are required in 240 rooms?								
	A	80	B	120	C	480	D	160	
Q 18	If a box of sweets is divided among 24 children, they will get 5 sweets each. How many would each get, if the number of the children is reduced by 4?								
	A	4	B	8	C	6	D	5	

Q 19	72 beds are arranged in 4 floors. How many floors do the hostel have if 360 beds are provided?							
	A	20	B	18	C	16	D	14
Q 20	6 pipes are required to fill a tank in 1 hour 20 minutes. If we use 5 such types of pipes, how much time it will take to fill the tank?							
	A	1 hour 30 minutes	B	2 hours	C	1 hour 36 minutes	D	1 hour

ANSWERS

1.	D	2.	B	3.	D	4.	A
5.	B	6.	C	7.	A	8.	A
9.	B	10.	D	11.	24 days	12.	₹ 216
13.	24 men	14.	6	15.	25 km/hour	16.	B
17.	C	18.	C	19.	A	20.	C