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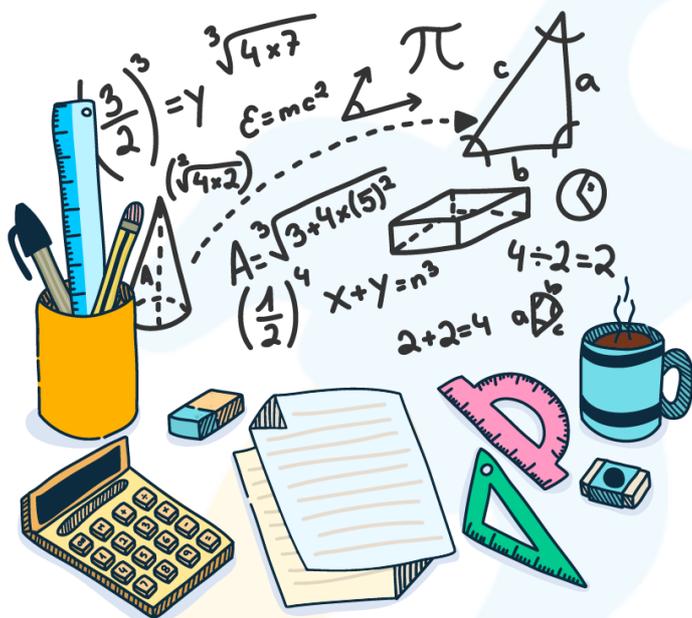
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## Direct Variation Worksheets

1. The cost of 2 oranges is \$3. Find the cost of 5 oranges.

2.  $X : 7 = 16 : 28$

3.  $23 : 19 = X : 57$



4. The area of a circle is directly proportional to the square of its radius. The area of a circle is  $81\pi$  square units for a radius of 9 units. What is the area of the circle for a radius of 12 units?

5. Two quantities  $A$ , and  $B$  are related such that  $A$  is proportional to the cube of  $B$ . For a value of 4 for  $B$ , the value of  $A$  is 64. Find the value of  $B$  for which the value of  $A$  is 125.

6. The perimeter of a square is directly proportional to the side of the square. The perimeter is 20 units for a side of 5 units. What is the perimeter of the square, if the side of the square is tripled?
  
7. As per the law of elasticity in physics, the length of stretching of a body is directly proportional to the force applied. For a force of 10 newtons the wire stretches by 5 cms. Find the force required to stretch the body by 8 cms.
  
8. The quantity  $P$  varies directly with the quantity  $Q$ . For a value of 7 units for  $P$  the value of  $Q$  is 28 units. What is the value of  $Q$  for a value of 12 units for  $P$ ?
  
9. The cost of 5 pens is \$40. Assuming that the cost is directly proportional to the number of pens, find the cost of 9 pens.
  
10. For completion of work the cost involved is directly proportional to the number of men. The cost of 7 men for the project is \$280. What is the cost involved for 11 men for this same work?

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in an interesting way,  
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## Why choose Cuemath?

"Cuemath is a valuable addition to our family. We love solving puzzle cards. My daughter is now visualizing maths and solving problems effectively!"

- Gary Schwartz

"Cuemath is great because my son has a one-on-one interaction with the teacher. The instructor has developed his confidence and I can see progress in his work. One-on-one interaction is perfect and a great bonus."

- Kirk Riley

"I appreciate the effort that miss Nitya puts in to help my daughter understand the best methods and to explain why she got a problem incorrect. She is extremely patient and generous with Miranda."

- Barbara Cabrera

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**ANSWERS**

1)	\$ 7.5
2)	4
3)	69
4)	$144\pi$ square units
5)	5
6)	60 units

7)	80 newtons
8)	48 units
9)	\$ 72
10)	\$ 440