



**GRADE:8**

**SUBJECT: MATHEMATICS**

1. Jimmy takes 6 hours to mow his lawn. On an average, how much of the lawn does he mow in 1 hour?

a. 6

b.  $\frac{6}{60}$

c.  $\frac{1}{6}$

2. Choose if True or False.

A. If  $A = 25B$ , then A and B are not in direct proportion.

B. The perimeter of a square is directly proportional to the length of its side.

3. Solve.

A.  $(100x^5y^{11} - 50x^{11}y^5) \div 25x^{11}y^7$

B.  $(51m^2 + 3) \div 3m^2$

4. Write any 2 non-examples of direct proportion.

5. Choose the common factors of  $4v^2u^5z^3$  and  $8vz^5$ .

a. 2, 2, 2, v, v, u, u, u, u, u, z, z, z, z, z

b. 2, 2, v, u, z, z, z

c. 2, 2, v, z, z, z

d. 2, 2, v, z, u

1. If 4 men or 8 women can pack 420 items per day, how many items can 9 men and 6 women pack per day?
2. Sam bought a rectangular plot of land with an area of  $96a^2b^6c^4$  sq. m. The length of the plot is  $12ab^4c^3$  m. What is the breadth of the plot?
3. Ryan and John are co-workers.
  - A. Ryan finishes a project in 24 days. John finishes the project in 30 days. In how many days can they complete the project, if they work together?
  - B. Ryan works twice as fast as John. If they work together to finish a task in 8 hours, in how many hours can John alone finish the task?

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End