

## 8.1A – DIRECT, INVERSE AND JOINT VARIATION DIRECT VARIATION – Answers.

1. If  $y$  varies directly as  $x$ , and  $y = 6$  when  $x = 4$ , find  $y$  when  $x = 12$ .  
 $y = 18$
2. If  $a$  is directly proportional to  $b$ , and  $a = 25$  when  $b = 35$ , find  $b$  when  $a = 40$ .  
 $b = 56$
3. If  $w$  varies directly as  $z$ , and  $w = 4.5$  when  $z = 3$ , find  $z$  when  $w = 1.5$ .  
 $z = 1$
4. If  $p$  is directly proportional to  $q^3$ , and  $p = 3$  when  $q = 2$ , find  $p$  when  $q = 4$ .  
 $p = 24$
5. If  $r$  varies directly as  $s + 1$ , and  $r = 4$  when  $s = 5$ , find  $r$  when  $s = 8$ .  
 $r = 6$
6. If  $a$  varies directly as  $3b + 2$ , and  $a = 10$  when  $b = 6$ , find  $b$  when  $a = 7$ .  
 $b = 4$
7. If the sales tax on a \$38 purchase is \$2.85, what will the tax be on an \$84 purchase?  
 $t = \$6.30$
8. In a survey, the number of people preferring hot cereal is directly proportional to the total number of people surveyed. One such survey showed that 52 out of 234 people questioned preferred hot cereal to cold cereal. In a school population of 1800, how many people are likely to prefer hot cereal?  
400 people
9. In real estate, the amount of commission is directly proportional to the price of the property. A real estate agent received a commission of \$2232 on a piece of land that sold for \$124,000. At this rate, what commission will the agent receive for a piece of land that sold for \$160,000?  
\$2,880

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# Direct Inverse Variation Answer Key

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