

**TERM 3 FINAL  
REVIEW**

**INTERMEDIATE 1**

**TERM 3**

Answer the following questions. Make sure to SHOW YOUR WORK on a separate piece of paper.

1. Simplify:  $-\frac{1}{3} - \frac{3}{5}$
2. Solve and graph  $-2x + 3 < 2$
3. How can you determine if a graph is proportional or not?
4. Ms. Edgington owes Mr. Sackett \$5.36. If she pays him \$3.54, how much does she still owe him? Plot your answer on a number line.
5. The yearbook staff is selling yearbooks in advance so they know how many yearbooks they can order. The equation  $y = 35x$  represents the amount of money,  $y$ , the yearbook staff receives for  $x$  books sold. What is the unit rate, or constant of proportionality?

Use the following table for the next 3 questions.

|                          |           |           |           |           |
|--------------------------|-----------|-----------|-----------|-----------|
| <b>Hour(s), x</b>        | <b>5</b>  | <b>10</b> | <b>15</b> | <b>20</b> |
| <b>Miles Traveled, y</b> | <b>20</b> | <b>40</b> | <b>60</b> | <b>80</b> |

6. Find the unit rate in miles traveled per hour.
7. Write the equation for the table above.
8. If you have travelled for 7 hours, how far have you gone?
9. Fill in the missing values in the proportional table below.

| Number of<br>Chocolate Kisses | Calories |
|-------------------------------|----------|
| 9                             | 200      |
|                               | 400      |
| 27                            | 600      |
| 36                            |          |

Constant of Proportionality \_\_\_\_\_

Equation: \_\_\_\_\_

10. Solve and graph:  $-\frac{5}{7}y - 4 \leq \frac{1}{14}$

11. Mr. Sackett gets \$30 every time he gets hired to teach a tap dance. He also gets \$25 per hour he spends teaching the dance. If he earned \$305 dollars, how long did he spend teaching the dance?
12. The Dance Team is going to hold a car wash to raise money. They are going to charge \$3 per car washed. How many cars would they need to wash if they want to make \$224?
13. Solve for  $x$ :  $-3x - 12 = 32$
14. How can you determine if a table is proportional or not?
15. Simplify:  $-15 \div 3 \cdot 5 + (15 - 20)$
16. Solve for  $x$ :  $-5x + 1 \geq 4$
17. Will the following side lengths make a triangle? Explain your reasoning.  
2 in, 4 in, 6 in
18. Will the following angles make a triangle? Explain your reasoning.  
 $30^\circ, 40^\circ, 110^\circ$
19. Explain how you would teach a 6<sup>th</sup> grader how to classify a triangle by angle measures.
20. Explain how you would teach a 6<sup>th</sup> grader how to classify a triangle by side lengths.
21. If a bike normally costs \$659, but is on sale for 45% off. How much does the bike cost now?
22. Your bill at a restaurant is \$42.55. If you want to leave a 16% tip, what is the final cost of your meal?
23. If you roll a 10-sided die, find P(NOT multiple of 3)
24. You are pulling candies out of a bag. The bag has 5 Snickers, 4 Butterfingers, and 8 Milky Ways. What is P(Butterfinger or Snickers)?
25. If you flip a coin 3 times, what is the probability of getting at least two tails?