

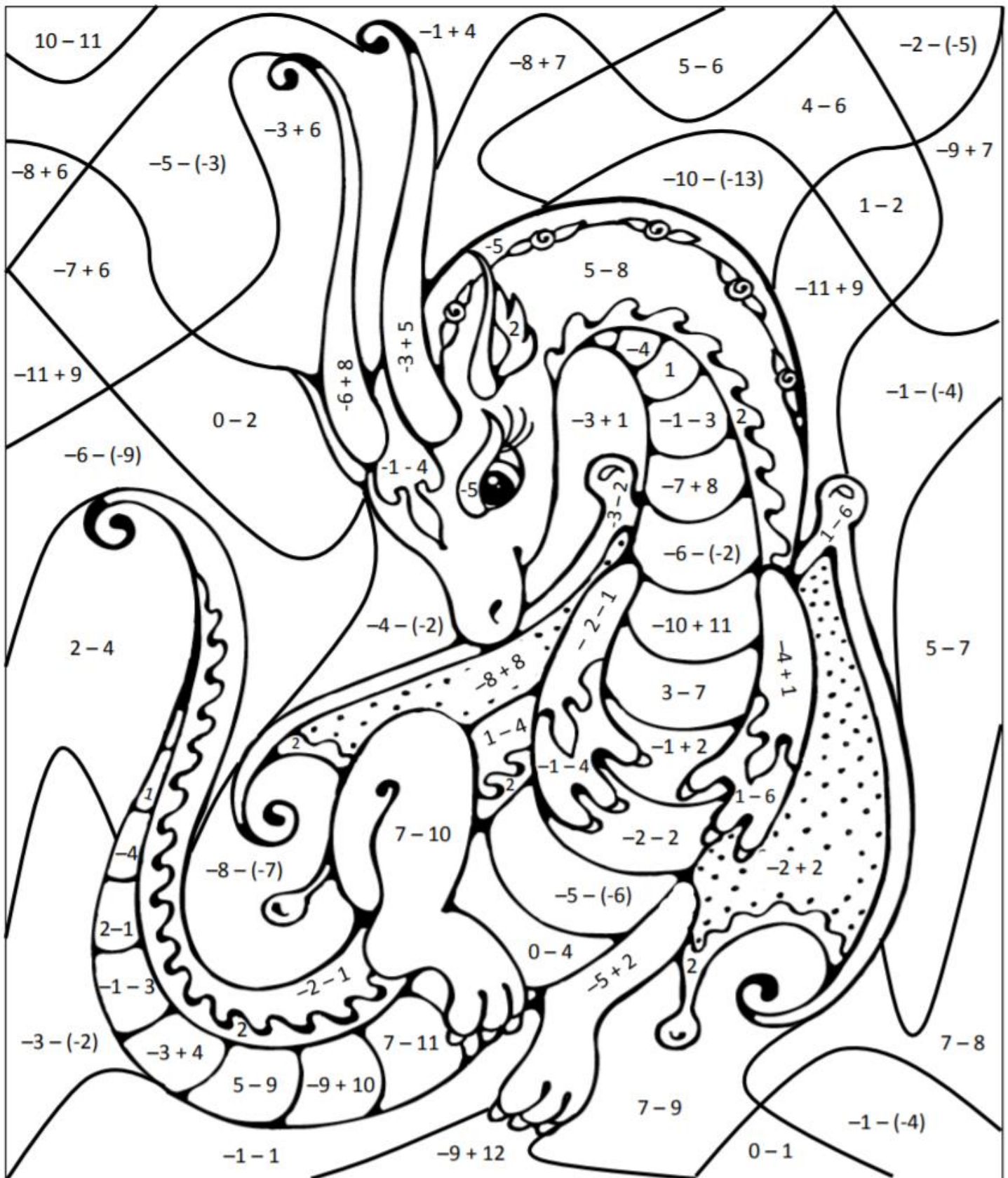


# Choice Board -Week 2

## Learning Activity Sheet - 7th Grade Math

These assignments and activities are designed to help you stay connected to your learning. Choose to do as many as you see fit to maintain your learning and understanding of a few concepts and skills categorized by chapter from chapters 1-6.

Chapter 1 - Integers Color by Number	Chapter 2 – Adding Rational Numbers
<p><b>Adding and Subtracting Integers:</b> Use this video as a review resource for adding and subtracting integers.  <a href="https://www.youtube.com/watch?v=BgblvF90UE">https://www.youtube.com/watch?v= BgblvF90UE</a></p> <ul style="list-style-type: none"> <li><b>Practice Work:</b> Enjoy the <b>Ch.1 – Color by Number Integer sheet</b> on the second page of this document.</li> </ul> <p><b>Answer key</b> can be found on the fourth page of this document. You <b>MAY</b> add/subtract the integers in the dragon on notebook paper to show your work using a number line or to show your “keep, change, change step” when subtracting.</p>	<p><b>Adding Rational Numbers:</b> This video walks you through the 3 example problems found in your Big Ideas Math textbook on pages 52-53.  <a href="https://www.youtube.com/watch?v=yZYu0debFtE">https://www.youtube.com/watch?v=yZYu0debFtE</a></p> <ul style="list-style-type: none"> <li><b>Practice Work: NO CALCULATORS!</b> Go to page 54. Do problems #4-19. (If needed, revisit pages 52-53 in your math textbook.)</li> </ul> <p><b>Answer key</b> on the fourth page of this document. Write out each problem and then solve it on notebook paper.</p>
Chapter 3 – Add and Subtract Expressions	Chapter 4 – Solutions of Inequalities
<p><b>Adding and Subtracting Linear Expressions:</b> This video illustrates examples 1 through 3 found on pages 88-89 of your Big Ideas Math textbook.  <a href="https://www.youtube.com/watch?v=USPwKQI_3LY">https://www.youtube.com/watch?v=USPwKQI_3LY</a></p> <ul style="list-style-type: none"> <li><b>Practice Work: NO CALCULATORS!</b> Do problems 9-14 on page 95 of your math textbook.</li> </ul> <p><b>Answer key</b> on the fourth page of this document. Write out each problem and then solve it on notebook paper.</p>	<p><b>Big Ideas Math - Solutions of Inequalities Video</b>  <a href="https://www.bigideasmath.com/protected/content/dcs_cc2/tutorials/mp4/cc12/grade%208/chapter%208/section%201/tut_8_08_01_2/tut_8_08_01_2.html">https://www.bigideasmath.com/protected/content/dcs_cc2/tutorials/mp4/cc12/grade%208/chapter%208/section%201/tut_8_08_01_2/tut_8_08_01_2.html</a></p> <ul style="list-style-type: none"> <li>If needed, read pages 126-127 in your math textbook for the concepts and skills needed to solve these problems.</li> <li><b>Practice Work: NO CALCULATORS!</b> Go to pages 128-129 of your math textbook. Do problems #11-16 and/or <b>challenge problems</b> #22-25, 27.</li> </ul> <p><b>Answer key</b> on the fourth page of this document. Write out each problem and then solve it on notebook paper.</p>
Chapter 5 – Rates and Unit Rates	Chapter 6 - Discounts
<p><b>Rates and Unit Rates:</b> This video explains the concepts of rate and unit rate. It also shows how to you how to find the unit rate.  <a href="https://www.youtube.com/watch?v=ZeizwRUjgc">https://www.youtube.com/watch?v=ZeizwRUjgc</a></p> <ul style="list-style-type: none"> <li>If needed, read pages 164-165 in your math textbook.</li> <li><b>Practice Work: NO CALCULATORS!</b> You will find a half-sheet practice sheet on the third page of this document.</li> </ul> <p><b>Answer key</b> on the third page of this document. Write out each problem and then solve it on notebook paper.</p>	<p><b>Math Playground – Troy’s Toys Interactive Game</b>  <a href="https://www.mathplayground.com/percent_shopping.html">https://www.mathplayground.com/percent_shopping.html</a></p> <ul style="list-style-type: none"> <li><b>Practice Work:</b> This webpage features “Troy’s Toys”, a toy store where you can purchase toys at discounted prices. You can choose to play at <b>level 1</b> or <b>level 2</b>. (I recommend completing 5-10 rounds)</li> </ul> <p><b>Level 1 Review:</b> You can review how to find percents of numbers on page 234 of your math textbook. Read through example #1.</p> <p><b>Level 2 Review:</b> You can review how to find percents of discount on page 243 of your math textbook. Read through example #2. (Hint: It’s a percent of decrease problem!)</p>



Coloring Guide

-5 Blue

-3 Turquoise

1 Violet

3 Pink

-1 Orange

-2 Yellow

0 Green

2 Red

-4 Gray

### Chapter 3 - Combining Like-Terms Worksheet

**NO CALCULATORS ALLOWED**

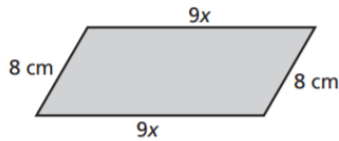
Identify the terms and like terms in the expression.

- $-4y + 7 + 9y - 3$
- $3n^2 - 1.4n + 5n^2 - 6.4$
- $\frac{1}{2}b^3 - b^3 + 2b$

Simplify the expression.

- $-15m + 9m$
- $3.2 - 9x + 7.1 - 3x$
- $19a - 7 - 3a + 12a$
- $\frac{1}{8}h + 7 - \frac{3}{4}h$
- $8k - 2(4 - 3k)$
- $25 - 6x - 12 - 2x$
- $\frac{5}{2}(6x - 7) + \frac{4}{3}(2 + 9x)$
- $\frac{2}{3}y + 5 - 3 - \frac{11}{12}y$

- Write an expression in simplest form that represents the perimeter of the polygon.



### Chapter 5 – Rates and Unit Rates Worksheet

**NO CALCULATORS ALLOWED**

Find the product. List the units.

- $12 \text{ h} \times \frac{\$5}{\text{h}}$
- $6 \text{ oz} \times \frac{\$0.59}{\text{oz}}$
- $9 \text{ h} \times \frac{70 \text{ mi}}{\text{h}}$

Write the ratio as a fraction in simplest form.

- 12 to 15
- 24 : 9
- 14 tetras : 6 angelfish

Find the unit rate.

- 360 miles in 6 hours
- 18 bowlers on 6 lanes
- \$28 for 7 people

Use the ratio table to find the unit rate with respect to the specified units.

- Laps per minute


Minutes	0	2	4	6
Laps	0	1	2	3

- Grams of protein per serving

Servings	0	1	2	3
Grams of Protein	0	15	30	45

- At 9 A.M. you have run 2 miles. At 9:24 A.M. you have run 5 miles. What is your running rate in minutes per mile?
- Are the two statements equivalent? Explain your reasoning.
  - The ratio of orange to blue is 3 to 4.
  - The ratio of blue to orange is 12 to 9.



Chapter 1 – Integers Color by Numbers	Chapter 2 – Adding Rational Numbers
	<p>4. <math>\frac{1}{3}</math></p> <p>5. <math>-1\frac{4}{5}</math></p> <p>6. <math>-0.9</math></p> <p>7. <math>-\frac{5}{14}</math></p> <p>8. <math>2\frac{1}{3}</math></p> <p>9. <math>-\frac{7}{12}</math></p> <p>10. <math>-3.45</math></p> <p>11. <math>1.844</math></p> <p>12. <math>4.539</math></p> <p>13. The decimals are not lined up correctly; Line up the decimals; <math>-3.95</math></p> <p>14. The sum of the numerators is incorrect.  <math>-\frac{5}{8} + \frac{1}{8} = \frac{-5+1}{8} = \frac{-4}{8} = -\frac{1}{2}</math></p> <p>15. <math>-1\frac{5}{12}</math></p> <p>16. <math>-\frac{3}{4}</math></p> <p>17. <math>1\frac{5}{12}</math></p> <p>18. <math>-\\$5.35</math></p> <p>19. <math>\frac{1}{2}</math></p>
Chapter 3 – Add and Subtract Expressions	Chapter 4 – Solutions to Inequalities
<p>5. <math>8x</math></p> <p>6. <math>-7 + 7x</math></p> <p>7. <math>2x + 6</math></p> <p>8. <math>5x + 4</math></p> <p>9. <math>4s + 4</math></p> <p>10. <math>12t - 1</math></p> <p>11. <math>-13k + 8</math></p> <p>12. <math>\frac{7}{12}q</math></p> <p>13. <math>3n - 10</math></p> <p>14. <math>9h + 2</math></p>	<p>11. yes</p> <p>12. no</p> <p>13. no</p> <p>14. yes</p> <p>15. yes</p> <p>16. no</p> <p>22. no</p> <p>23. yes</p> <p>24. no</p> <p>25. yes</p> <p>27. a. any value that is greater than <math>-2</math>  b. any value that is less than or equal to <math>-2</math>; <math>b \leq -2</math>  c. They represent the entire set of real numbers; yes</p>
Chapter 5 – Rates and Unit Rates	Chapter 6 - Discounts
<p>1. \$60      2. \$3.54      3. 630      4. <math>\frac{4}{5}</math></p> <p>5. <math>\frac{8}{3}</math>      6. <math>\frac{7}{3}</math>      7. 60 mi/h</p> <p>8. 3 bowlers per lane      9. \$4 per person</p> <p>10. <math>\frac{1 \text{ lap}}{2 \text{ min}}</math>, or 0.5 lap per min</p> <p>11. 15 grams per serving      12. 8 min/mi</p> <p>13. yes; <i>Sample answer:</i>  <math>\frac{\text{blue}}{\text{orange}} = \frac{12}{9} = \frac{4}{3}</math> and <math>\frac{\text{orange}}{\text{blue}} = \frac{3}{4}</math></p>	<p>Answers are given in the game. Here are a couple of videos that illustrate concepts and skills needed to play Troy's Toys discount game.</p> <p>Finding the Percent of a Number:  <a href="https://www.youtube.com/watch?v=rR95Cbcjzus">https://www.youtube.com/watch?v=rR95Cbcjzus</a></p> <p>Finding the Percent of Discount;  <a href="https://www.youtube.com/watch?v=Kh1Tr1eYghA">https://www.youtube.com/watch?v=Kh1Tr1eYghA</a></p>

