Flex Summer Math Packet Practice: Entering 7th Grade

This packet is intended to keep the path skills you learned in 6th grade fresh in your mind during the summer. **Please show all your work for every problem.** Use loose leaf paper if you need extra room. You will receive a grade for completing the packet (with ALL work shown) as your first grade in Math for the year. Be sure to also complete the Multiplication Math Fact Fluency and Speed requirement of the summer work, which will count as part of your first grade.

Concept 1: Adding, subtracting, multiplying, and dividing with fractions

Directions: Solve each problem showing all steps and circle your answer. Simplify your answer when possible. NO CALCULATOR. Show your work!

1. $2\frac{1}{4}+\frac{3}{4}=$	2. $2\frac{5}{8}-1\frac{2}{4}=$
3. $\frac{11}{12}\times\frac{2}{4}=$	4. $3\frac{15}{20}\div\frac{4}{5}=$
5. $4\frac{1}{3}+2\frac{2}{6}+\frac{4}{12}-\frac{3}{4}=$	6. $3\frac{1}{3}\times\frac{2}{6}\times\frac{4}{12}\div\frac{3}{4}=$
7. $\frac{1}{4}+\frac{3}{24}+\frac{7}{8}-\frac{1}{2}=$	8. $2\frac{3}{8}+\frac{2}{20}-1\frac{1}{5}$

Concept 2: Adding, subtracting, multiplying, and dividing with decimals

Directions: Solve each problem showing all steps and circle your answer. Simplify your answer when possible. NO CALCULATOR

1. $4.5 + 3 =$	2. $\frac{16.8}{4.2} =$
3. $3 - 1.78 =$	4. $16.2 + 7.58 - 3.6 - 1.4 =$
5. $\frac{82}{4} =$	6. $5.5 \times 3 \times 2.5 \div 1.5 =$
7. $3 + 2.6 + 3.72 =$	8. $6.1 \times 4 + 2.6 =$
9. $26 \div 3.2 =$	10. $250 \div 12.5 + 7.3 =$

Concept 3: Writing and solving one-step equations
Directions: Solve the following one-step equations. Show all steps & circle your answers.

1. $x + 1.8 = 25$	2. $\frac{x}{2} = 23$	3. $7.5x = 45$
4. $x - 2.2 = 16$	5. 5. $-x = 16$	

Directions: Write and solve a one-step equation for each scenario.

6. The difference of a number and $\frac{3}{4}$ is -6.

7. The sum of 10.5 and a number is 23.75

8. The largest ranch in the world is the Australian Outback. It is about 12,000 square miles, which is 5 times the size of the largest United States ranch. Write and solve an equation to find the size of the largest United States Ranch.

Concept 4: Changing numeric expressions to algebraic expressions and vice versa
Directions: Change each verbal expression to a numerical expression.

1. The product of 9 and 17 is then divided by 3

2. Four less than 18

3. Twenty-five increased by 6

4. The quotient of a number and 7
5.

Directions: Change each algebraic expression into a verbal expression.

6. $9 + 8$

_____

7. $(9 - 3) \times 2$

_____

8. $32 \div y$

_____

9. $12 \div 4 + 2$

_____

Concept 5: Adding, Subtracting, Multiplying, and Dividing with Integers

Directions: Solve each problem and show your work or explain your thought process.

1. $-3-1$	2. $-144 \div -12 + 3$
3. $-2+9$	4. $(-6)+(-14) \times 2$
5. $125-(-103)$	6. $13+20+(-17)+(-13)$
7. $100 \div (-5)$	8. $(-12)-(-11)$
9. $-7 \times -3 \times 2$	10. $(-126) \div 9 \div 3$

Integer Operation Practice Game: Students should be fluent with adding, subtracting, multiplying, and dividing with integers. This will direct you to a game that is easy to practice integers.

Link: http://www.hoodamath.com/mobile/games/integerstimedtests.html

QR Code:

Summer Vocabulary Words

Directions: Use www.mathwords.com to define the following vocabulary words. These are words I expect you to be able to use fluently in class this year.

WORD	Definition
1. Inverse Operation	
2. Order of Operations	
3. Algebraic Expressions	
4. Numerical Expressions	
5. Variable	
6. Coordinate Plane	
7. x-axis	
8. y-axis	
9. Coordinate	
10. Evaluate	
11. Equation	
12. Integers	

Summer Fluency Practice

Directions: You should be fluent in operations with integers. You should be able to complete this worksheet in 2 minutes to be considered fluent.

$9 - 6 =$	$(-5) + 7 =$	$(-9) + (-2) =$
$7 - (-2) =$	$(-2) + 2 =$	$(-8) - 1 =$
$5 - (-1) =$	$2 + 1 =$	$7 + 1 =$
$15 \div 3 =$	$8 \div (-4) =$	$(-4) - 4 =$
$9 \times (-8) =$	$25 \div (-5) =$	$1 + 7 =$
$4 \div 2 =$	$(-6) \times (-1) =$	$5 \times 6 =$
$16 \div 2 =$	$5 + 5 =$	$(-5) \times (-2) =$
$6 \times (-8) =$	$9 + (-7) =$	$(-27) \div (-3) =$
$9 - 1 =$	$4 \times (-7) =$	$(-2) - 7 =$
$3 + 4 =$	$(-6) - (-1) =$	$5 - (-4) =$

$5 + 4 =$	$(-24) \div 8 =$	$(-9) \div (-1) =$
$(-10) \div 5 =$	$63 \div (-9) =$	$(-6) \div (-6) =$
$(-25) \div (-5) =$	$(-6) \div 3 =$	$4 - (-9) =$
$(-3) - (-1) =$	$2 \times 2 =$	$6 + (-1) =$
$1 + 8 =$	$(-6) \times (-6) =$	$8 \div (-1) =$
$5 \div (-5) =$	$3 \div 3 =$	$(-2) + 1 =$
$9 - 2 =$	$3 - (-3) =$	$9 \times (-9) =$
$6 \times (-3) =$	$4 + 4 =$	$8 \times (-4) =$
$(-6) + (-6) =$	$(-8) - 3 =$	$(-5) \times (-9) =$
$5 + (-6) =$	$(-4) \div (-1) =$	$(-2) + (-7) =$

Summer Fluency Practice

Directions: You should be fluent in Rounding Decimal Numbers. You should be able to complete this worksheet in *** minutes to be considered fluent

Rounding Decimal Numbers

Round each number to the nearest tenth.

1) 6.84 _____

2) 6.23 _____

3) 4.13 _____

4) 4.15 _____

5) 6.45 _____

6) 3.69 _____

7) 9.81 _____

8) 6.13 _____

9) 3.44 _____

10) 7.88 _____

Round each number to the nearest tenth.

1) 6.685 _____

2) 2.268 _____

3) 8.798 _____

4) 6.449 _____

5) 1.277 _____

6) 4.375 _____

7) 9.994 _____

8) 9.126 _____

9) 6.442 _____

10) 2.715 _____

Rounding Decimals

Name:

Round each number to the correct place value.

1) Round to the nearest tenth. 8.54 _____

2) Round to the nearest whole number. 99.59 _____

3) Round to the nearest tenth. 310.286 _____

4) Round to the nearest whole number. 6.4 _____

5) Round to the nearest whole number. 6.805 _____

6) Round to the nearest tenth. 9.725 _____

7) Round to the nearest hundredth. 118.380 _____

8) Round to the nearest tenth. 90.69 _____

9) Round to the nearest tenth. 65.85 _____

10) Round to the nearest whole number. 70.59 _____

11) Round to the nearest hundredth. 76.684 _____

12) Round to the nearest hundredth. 815.755 _____

13) Round to the nearest tenth. 877.71 _____

14) Round to the nearest hundredth. 12.261 _____

15) Round to the nearest whole number. 16.4 _____

16) Round to the nearest whole number. 95.81 _____

17) Round to the nearest hundredth. 2.408 _____

18) Round to the nearest hundredth. 3.993 _____

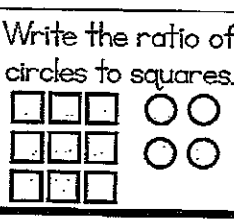
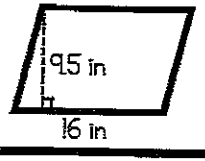
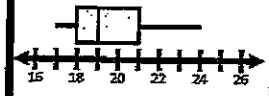
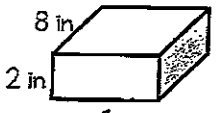
19) Round to the nearest whole number. 76.3 _____

20) Round to the nearest hundredth. 716.514 _____

Answers

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____
13. _____
14. _____
15. _____
16. _____
17. _____
18. _____
19. _____
20. _____

MATH REVIEW OF THE DAY
JUNE 2022

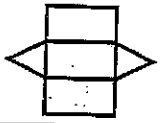
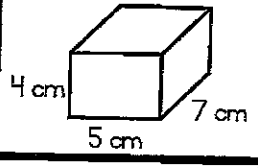
Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
			1 Is this a statistical question? How many points did Ray score on the reading test?	**2** What is the least common multiple of 9 and 12?	**3** Write the ratio of circles to squares. 	**4** Solve. $70{,}483 \times 25$
5 Solve. Simplify your answer. $8 \div \frac{2}{5}$	**6** What is the greatest integer that makes this inequality true? $32 > y + 9$	**7** Calculate the area of a square with side lengths of 7.4 cm.	**8** What percentage of people like pineapple on pizza? Response / Frequency Like / 24 Dislike / 56	**9** What is the greatest common factor of 30 and 45?	**10** Out of 32 students, 12 are boys. What is the ratio of girls to boys?	**11** Solve. $6{,}375 \div 14$ If there's a remainder, write it as a fraction.
12 Order from least to greatest. $2\frac{13}{16}$ $3\frac{37}{48}$ $2\frac{5}{6}$	**13** Write an expression. 3 less than the product of n and 7	**14** Find the area.  	**15** What is the mode of this data set? 7, 8, 5, 4, 4, 7, 4, 9	**16** What integer describes this situation? Ryan withdraws $150 from his bank account.	**17** Flowers / Vases 16 / 2 32 / 4 56 / ?	**18** Solve. $546.392 \div 68.7$
19 Solve. Simplify your answer. $6\frac{7}{9} \div 2\frac{11}{18}$	**20** Evaluate this expression. $80 - 6^2 \times 2 \div 8$	**21** Find the volume of a cube with side lengths of $3\frac{1}{2}$ m.	**22** What is the range of this data set?  	**23** What numbers have an absolute value of 27?	**24** 25% of the cupcakes sold were chocolate. If 156 cupcakes were sold, how many were chocolate?	**25** Solve. $7{,}000 - 317.521$
26 Solve. Simplify your answer. $\frac{5}{6} \div \frac{1}{4}$	**27** What is the value of this expression when $x = 4$. $(15 - 2x)^2$	**28** Find the volume.  	**29** What is the median of this data set? TJ's Jump Length (m) 15 / 0.9 / 16 14 / 18 / 14	**30** What is the opposite of the integer 99?		

June Answer Sheet

Name _____

1 _____	11 _____	21 _____
2 _____	12 _____	22 _____
3 _____	13 _____	23 _____
4 _____	14 _____	24 _____
5 _____	15 _____	25 _____
6 _____	16 _____	26 _____
7 _____	17 _____	27 _____
8 _____	18 _____	28 _____
9 _____	19 _____	29 _____
10 _____	20 _____	30 _____

MATH REVIEW OF THE DAY
JULY 2022

Sunday	Monday	Tuesday	Wednesday	Thursday	Friday	Saturday
					1 Out of 60 problems, Jamal got 54 correct. What percent did he get correct?	2 Solve. 33×7.958
3 How much fudge will each person get if 6 people share ¾ pound of fudge equally?	4 Fill in the blank with <, >, or = for $b = 6$. $3b + 6 \_\_ 4b$	5 The points (-3, 2), (5, 2), and (5, -1) are three vertices of a rectangle. What is the fourth vertex?	6 Is this a statistical question? How many minutes do students spend doing homework?	7 Use the distributive property to express the sum of 24 and 36.	8 Ann mows 4 lawns in 5 hours. At that rate, how long will it take her to mow 28 lawns?	9 Solve. $100.76 \div 22$
10 Solve. Simplify your answer. $7\frac{1}{2} - 3\frac{8}{15}$	11 Simplify the expression. $4x + 7y - x + 16$	12 Name the solid figure formed by this net. 	13 What is the mean of this data set? 68, 72, 83, 65, 77, 73	14 A point is 7 units to the left of the y-axis. What is the x-coordinate of that point?	15 Pete paid $27 for 5 movie tickets. What is the unit rate?	16 Solve. $69.42 \div 3.9$
17 Solve. Simplify your answer. $3\frac{7}{12} \times \frac{4}{6}$	18 Write an equivalent expression. $21a - 49b$	19 Find the surface area.  	20 What is the mode?  	21 What is the least common multiple of 6 and 10?	22 Solve. Simplify your answer. $2\frac{3}{8} \div 4$	23 Joe bought 2 ½ kg of ground beef. He made burgers that are 1/10 kg each. How many burgers did he make?
24 14 is 8% of what number?	25 Write an equivalent expression. $6.8(w + 5)$	26 Calculate the surface area of a cube with side lengths of 9 mm.	27 What is the mean? Day / Cookies Sold Friday 128 Saturday 247 Sunday 201	28 Compare using <, >, or =. $-13 \_\_ -8$	29 Write the ratio of shapes to triangles. 	30 Solve. $65,985 \div 45$ If there's a remainder, write it as a fraction.
31 Solve. 157 x 8,092						

July Answer Sheet

Name _____

1 _____

2 _____

3 _____

4 _____

5 _____

6 _____

7 _____

8 _____

9 _____

10 _____

11 _____

12 _____

13 _____

14 _____

15 _____

16 _____

17 _____

18 _____

19 _____

20 _____

21 _____

22 _____

23 _____

24 _____

25 _____

26 _____

27 _____

28 _____

29 _____

30 _____

31 _____