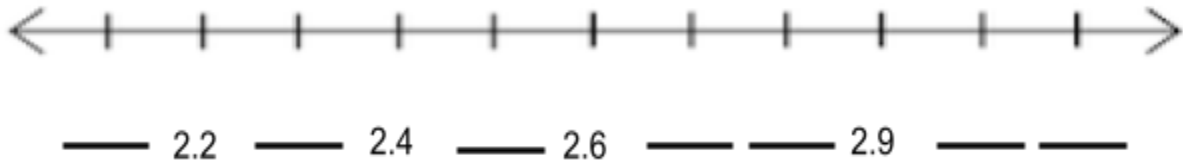


Name: _____

Date completed: _____

Rising 7th Grade Summer Maths

1. Fill in the number line.



Solve.

2. $\frac{5}{6}$ + $\frac{7}{12}$ =

3. $\frac{6}{8}$ - $\frac{1}{2}$ =

4. $\frac{4}{10}$ - $\frac{3}{7}$ =

5. $\frac{14}{20}$ + $\frac{1}{5}$ =

Compare Integers using < or > or =.

6. -6 5

7. -102 -13

8. 64.54 64.5

9. -49 -48

Adding integers

Use the number line or counters as a strategy.

10. $-5 + 4 =$
 $-14 =$

11. $7 + -3 =$

12. $5 +$

Subtract integers

Use keep, change, change, and counters or a number line.

13. $4 - -5 =$

14. $-9 - 3 =$

15. On a cold winter's day in Providence, the temperature starts at 7 degrees Fahrenheit but then drops 12 degrees. What is the temperature?

16) Multiply the fractions. Simplify and reduce.

$$\frac{1}{3} \times \frac{4}{8} =$$

$$\frac{12}{5} \times \frac{3}{15} =$$

17) Divide the fractions. Simplify and reduce.

$$\frac{5}{6} \div \frac{5}{6} =$$

$$\frac{10}{6} \div \frac{9}{2} =$$

18) Convert the improper fractions to mixed numbers. Simplify and reduce.

$$11/10$$

$$25/3$$

$$78/20$$

19) Convert the mixed numbers into improper fractions.

$$2 \frac{1}{2}$$

$$7 \frac{7}{8}$$

$$10 \frac{1}{3}$$

20. There is $\frac{5}{8}$ of a pie in one pan and $\frac{1}{3}$ of a pie in another pan. How much pie is there altogether?

Solve for the variable in each algebraic equation. Show your work.

21. $3m = 39$

22. $2y - 14 = 8$

Solve the proportion for each variable. Use *cross multiplication* and show your work.

23. $\frac{4}{12} = \frac{x}{48}$

24. $\frac{5}{b} = \frac{35}{100}$

25. $\frac{3}{10} = \frac{7.2}{m}$

26. $\frac{z}{4.9} = \frac{6.5}{20}$

27. Complete the table by writing the ratios and unit rates below:

Scenario	Ratio	Unit Rate
60 copies in 10 minutes		per minute
Mowed 7 lawns for \$49		per lawn
Sharpened 9 pencils in 2 minutes		

28. Convert from a fraction to a percent.

$\frac{2}{10}$

$\frac{7}{20}$

29. Convert from a percent to a decimal.

28%

6.4%

30. Convert from a decimal to a fraction.

.91

7.42

31. Complete the table:

Exponent Form	Expanded Form	Answer
6^3		
	$4 \times 4 \times 4 \times 4$	
		49

Solve using order of operations (PEMDAS).

1. Box + and - signs

2. Circle the terms

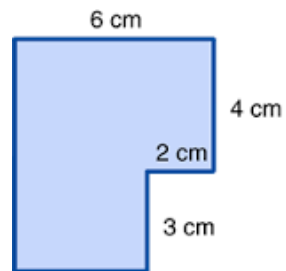
32. $(7 \times 3) \times 2 =$

33. $30 - (90 \div 10) + 7 =$

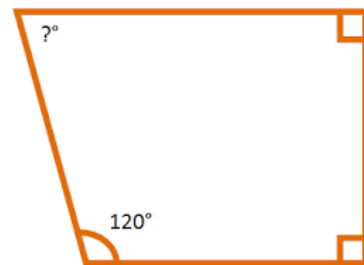
34. $55 - 4 - 6 \times 3 =$

35. $56 \div (10 - 3) - (2 \times 3) =$

36. Find the perimeter.



37. Find the missing angle. Use an algebraic equation.



38. What is the area of the **shaded** region?

