

Powers of Ten: Solve using mental math.

11.) 27×100

12.) $4,800 \div 10$

13.) $5.4 \times 1,000$

14.) $29.12 \div 100$

15.) 8.437×10

16.) Explain how you can use mental math to multiply and divide decimals and whole numbers by powers of ten (10, 100, 1000, etc.)

Rounding: Round the number to the given place value.

17.) 4,186.7289; tens place

18.) 5,273.2856; hundredths place

19.) 432,987,504.28; hundred thousands place

Whole Number and Decimal Operations:

20.) $328.65 + 76.213$

21.) $27.8 + 542$

22.) $1,523.7 - 834.3$

23.) $395 - 28.6$

24.) 423×256

25.) 8012×43

26.) $5,135 \div 65$

27.) $0.45 \div 4.5$

Fraction Concepts:

28.) Tom makes a cake for a class party. The recipe calls for $\frac{5}{8}$ cup of orange juice and $\frac{5}{12}$ cup of water.

Can Tom use a one-cup container to hold both the orange juice and water at the same time? **Explain your thinking.**

29.) For each description in the table below, write whether the quantity is less than 1 or more than 1.

Description	Quantity	More or less than 1?
4 pizzas shared equally among 7 people	Number of pizzas per person	
5 packs of crayons shared equally among 3 children	Number of crayon packs per child	
30 packages of pencils shared equally between 24 tables	Number of tables needed	

30.) Maria had 12 liters of Kool-aid. She poured all of the Kool-aid into 8 pitchers so that there was an equal amount in each pitcher. How many liters of Kool-aid did Maria pour into each pitcher?

31.) When $\frac{1}{4}$ is multiplied by a number less than 1, which of the following is always true?

- a.) The product is greater than 1.
- b.) The product is equal to 1.
- c.) The product is less than $\frac{1}{4}$.
- d.) The product is greater than $\frac{1}{4}$.

32.) In the expression $\frac{3}{4} \times n$, n represents a whole number. Select the statement below that describes the product.

- a.) The product is less than n .
- b.) The product is greater than n .
- c.) The product is equal to n .

Explain your choice.

33.) Jessica has $\frac{1}{3}$ of a bag of dog food to divide evenly between her 2 dogs. What fraction of the whole bag does Jessica give each of her dogs? (You can draw a picture to help you solve the problem.)

34.) A hiker carried 1 gallon of water on a hike. She drank $\frac{1}{2}$ of the water when she stopped to rest and gave an equal amount of the remaining water to each of 3 friends. What fraction of the 1 gallon of water did **each** friend receive? (You can draw a picture to help you solve the problem.)

Fraction Operations:

35.) $\frac{5}{6} - \frac{3}{4}$

36.) $\frac{2}{3} + \frac{1}{5}$

37.) $5\frac{5}{8} - 2\frac{1}{4}$

38.) $10\frac{3}{4} + 8\frac{2}{5}$

39.) $8 - 3\frac{1}{3}$

40.) $\frac{1}{2} + \frac{2}{3} + \frac{3}{4}$

Order of Operations: Solve the problems. Remember to use order of operations.

41.) $15 \times (13 + 24)$

42.) $12 + 8 \times 12 - 9 \div 3$

43.) $3,500 \div (34 + 8 \times 2) - 4$

44.) $6 \times (400 + 100) - 250 \div 5$

45.) $\frac{3}{4} - \frac{1}{2} + \frac{2}{3}$

Measurement:

- 46.) Paul bought 4 meters of wood trim. He used 72 centimeters to frame a photo of his dog and three times that length to frame a photo of a friend. What length, in **meters**, of wood trim remained after Paul made the frames?
- 47.) Mrs. Jones bought 6 kilograms of rice. After filling 10 containers with the same amount of rice in each, she had 860 grams remaining. How grams of rice are in each of the 10 containers?
- 48.) Carla needs 8 inches of ribbon for each craft she makes. What is the greatest number of crafts Carla can make using 30 feet of ribbon?

Geometry:

Write the number of sides the polygon has and then sketch a picture of the polygon.

49.) trapezoid

50.) hexagon

51.) pentagon

of sides = _____

of sides = _____

of sides = _____

52.) Find the volume of a box that is 16 feet by 5 feet by 9 feet.

53.) The volume of a rectangular prism is 576 cubic feet. What is the height of the box if it is 8 feet long and 12 feet wide?