

1. Tanisha used a ratio table to solve the following problem. Read the problem, then identify her strategy by filling in the blank below.

One movie ticket costs \$12. How much do 3 movie tickets cost?

movie tickets	1	2	3
dollars	12	24	36

The best description for the strategy she used is _____.

Word Bank:

(a) counting on (b) doubling (c) multiplying by _____

2. Solve for x .

$$\frac{7}{2} = \frac{21}{x}$$

3. Solve for x .

$$\frac{2}{3} = \frac{x}{9}$$

4. Round 3631 to the nearest thousand.

5. Round 7532 to the nearest hundred.

6. Convert the fraction below to a decimal.

$$\frac{47}{100}$$

7. Convert the fraction below to a decimal.

$$\frac{6}{25}$$

8. Convert the decimal below to a fraction in simplest terms.

0.16

9. Convert the decimal below to a fraction in simplest terms.

0.82

10. Convert the decimal below to a fraction in simplest terms.

0.47

11. Round 9.72 to the nearest tenth.

12. Write the numbers below in order from least to greatest. Use commas to separate.

1.3 0.7 6.2 1.7 5.6 6.3

13. Add the two numbers below.

$$1.5 + 6.3$$

14. Add the two numbers below.

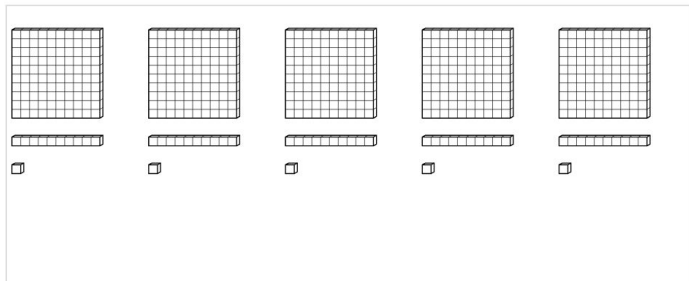
$$0.68 + 0.10$$

15. Subtract the two numbers below.

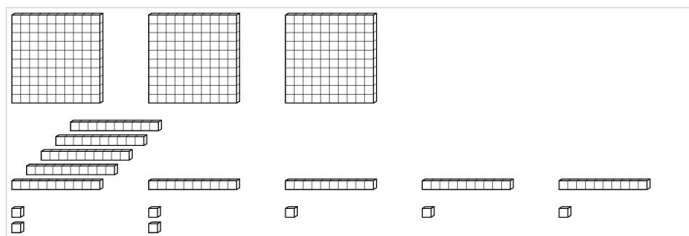
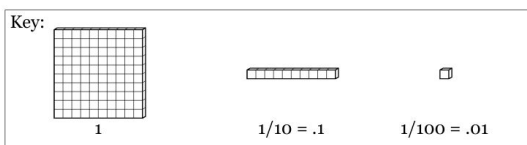
$$0.58 - 0.27$$

16. Evaluate: $915.19 \div 10$

17. Circle the blocks you would need to create a representation of 1.13. The shapes represent 1s, .1s, and .01s, respectively.



18. What number is represented by the base ten blocks shown below?



19. Fill in the guided sentence below to explain how $0.024 \div 4$ relates to $24 \div 4$.

0.024 is _____ of 24 , so $0.024 \div 4$ is

word bank 1

_____ of $24 \div 4$.

word bank 2

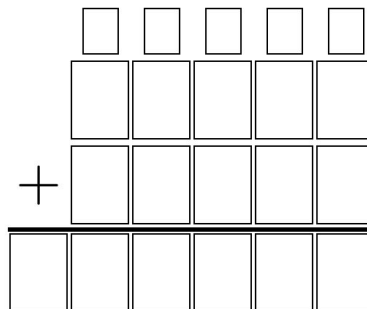
$24 \div 4 =$ _____ $0.024 \div 4 =$ _____

Word bank 1: (a) one tenth, (b) one hundredth, (c) one thousandth

Word bank 2: (a) one tenth, (b) one hundredth, (c) one thousandth

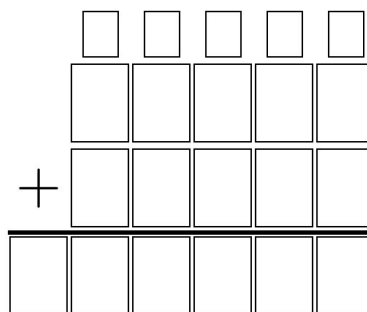
20. Complete the standard algorithm for $0.83 + 0.33$, including any “carried,” or regrouped digits, if necessary.

Note: you may have some boxes “left over.” You can leave them empty or fill in “missing” 0’s and/or decimal points.



21. Complete the standard algorithm for $84 + 0.57$, including any “carried,” or regrouped digits, if necessary.

Note: you may have some boxes “left over.” You can leave them empty or fill in “missing” 0’s and/or decimal points.



22. Complete the standard algorithm to solve the following addition problem, including any “carried,” or regrouped digits, if necessary.

$$496.6 + 5047 + 640 + 18.5$$

Note: you may have some boxes “left over.” You can leave them empty or fill in “missing” 0's and/or decimal points.

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23. Complete the standard algorithm for $73.0 - 6.1$, including any “borrowed” digits, if necessary.

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24. Complete the standard algorithm for $85.1 - 0.628$, including any “borrowed” digits, if necessary.

Note: you may have some boxes “left over.” You can leave them empty or fill in “missing” 0's and/or decimal points.

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25. Complete the standard algorithm for $39.3 - 2.78$, including any “borrowed” digits, if necessary.

Note: you may have some boxes “left over.” You can leave them empty or fill in “missing” 0's and/or decimal points.

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26. Complete the standard algorithm for $24.6 - 16.7$, including any “borrowed” digits, if necessary.

Note: you may have some boxes “left over.” You can leave them empty or fill in “missing” 0's and/or decimal points.

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27. Complete the standard multiplication algorithm for 0.75×0.33 , including any “carried,” or regrouped digits, if necessary.

$$\begin{array}{r} 0.75 \\ \times 0.33 \\ \hline \end{array}$$

28. Complete the standard multiplication algorithm for 47.2×0.532 , including any “carried,” or regrouped digits, if necessary.

$$\begin{array}{r} 47.2 \\ \times 0.532 \\ \hline \end{array}$$

29. Complete the standard long division algorithm for $7 \div 200$. Write your final answer as a decimal.

$$200 \overline{)7}$$

reset

30. Khalil used 9.7 grams of salt and 17.3 grams of sugar in a recipe. How much more sugar did Khalil use than salt?

31. 276 is what percent of 300?

32. Without dividing, determine if 16,841 is divisible by 2 and explain how you know.

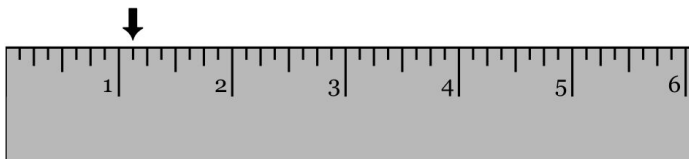
33. Circle all the factors of 45 in the hundreds chart below.

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	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

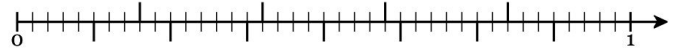
34. What is the greatest common factor of 44, 40, and 20?

35. What is the least common multiple of 4, 5, and 15?

36. Write the measurement shown on the inch ruler below. Be sure to simplify.



37. Use the number line to determine which fraction is larger: $\frac{4}{5}$ or $\frac{5}{8}$. The segment from 0 to 1 has been partitioned into 40 pieces, the smallest number needed to plot both fractions. (a) Plot a fraction equivalent to $\frac{4}{5}$. (b) Plot a fraction equivalent to $\frac{5}{8}$. (c) Complete the sentence below.



$\frac{4}{5}$ is (greater less) than $\frac{5}{8}$ because $\frac{4}{5} = \frac{\text{□}}{40}$ and $\frac{5}{8} = \frac{\text{□}}{40}$

38. Simplify: $\frac{33}{90}$

39. Find the missing number:

$$\frac{22}{27} \times \text{□} = 1$$

40. Evaluate the expression shown below and write your answer **as a fraction** in simplest form.

$$\frac{1}{6} - \frac{1}{10}$$

41. There are 12 guests at Tariq's party. If each guest will be served exactly $\frac{1}{4}$ pint of ice cream, how many pints of ice cream will he need? Complete the sentence below.

To solve, we'll need to $\left(\begin{array}{l} \text{multiply } 1/4 \text{ by } 12 \\ \text{divide } 12 \text{ by } 1/4 \end{array} \right)$, because we

know the SIZE of the groups and the

$\left(\begin{array}{l} \text{NUMBER of groups} \\ \text{TOTAL pints of ice cream} \end{array} \right)$, but we don't know the

$\left(\begin{array}{l} \text{NUMBER of groups} \\ \text{TOTAL pints of ice cream} \end{array} \right)$.

42. Convert $7\frac{1}{4}$ into an improper fraction.

43. State your answer as a mixed number in simplest form:

$$1\frac{4}{9} \div \frac{4}{5}$$

State your answer as a mixed number in simplest form.

44. Simplify the expression below using order of operations.

$$1 \times 7 + 6 - 5$$

45. Represent the following sentence as an algebraic expression, where "a number" is the letter x .

8 is multiplied by a number.

46. What is the value of the expression $8y^2 - y + 5$ when $y = 2$?

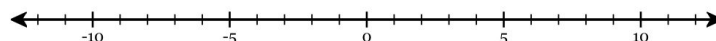
47. The table below shows the elevation at which different artifacts were found in an archeological dig.

Artifact	Elevation
arrow head	844 feet
bone	454 feet
necklace	-1051 feet
clay bowl	-548 feet
woven blanket	0 feet

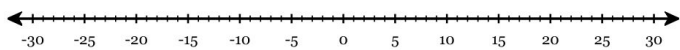
Which of these artifacts was discovered at the lowest elevation?

- A. necklace
- B. clay bowl
- C. woven blanket
- D. arrow head

48. Point M is located at 7. Plot Point M on the number line below.



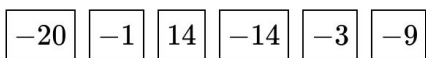
49. Plot -19 on the number line below. State its distance from zero, and then find $|-19|$.



Distance from Zero =

$|-19| =$

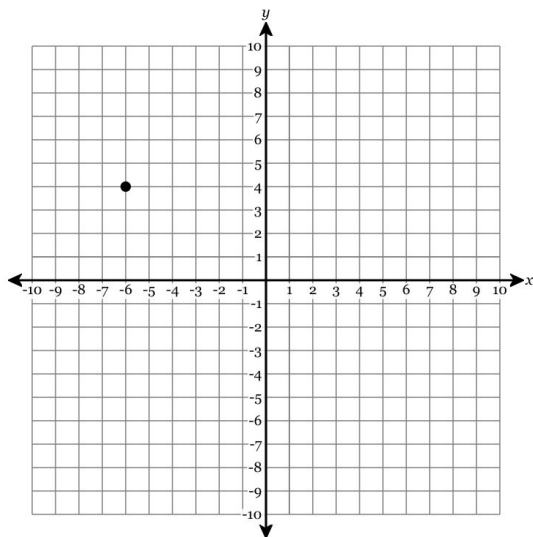
50. Write the numbers below in order from least to greatest. Use commas to separate.



51. In which quadrant does the point $(-4, -5)$ lie?

- A. 1st Quadrant
- B. 2nd Quadrant
- C. 3rd Quadrant
- D. 4th Quadrant

52. State the coordinates of the point.



53. The box-and-whisker plot below represents some data set. What is the range of the data?

