

😊 SUPER-SIZED
for Winter Break

Worth \$20
Robo Bucks

Enrichment Packet #20

Due: Monday

NAME: _____

Bright Ideas

Find the greatest number in each set of numbers.

Number Sense

1. $0.5, \frac{4}{10}, 0.2, \frac{3}{10}$

2. $\frac{1}{5}, 0.1, \frac{3}{10}, 0.2$

3. $\frac{3}{8}, 1.75, 1\frac{4}{8}$

4. $2\frac{1}{8}, 2.2, 2\frac{5}{8}, 2.1$

5. $1.15, 1.22, 1.25, 1.03$

6. $1.6, 2\frac{7}{10}, 1\frac{4}{10}, 2.2$

7. $1.25, 1\frac{2}{10}, 1\frac{1}{8}, \frac{3}{5}$

8. $2.5, 2\frac{3}{4}, 1.75, 2\frac{7}{8}$

9. $2.3, 3\frac{1}{10}, 2.9, 3.2$

10. $2\frac{6}{10}, 2.5, 2\frac{3}{4}, 2.7$

11. $2\frac{7}{10}, 1.5, 1\frac{7}{10}, 2\frac{5}{10}$

12. $1.07, 1\frac{7}{10}, 1.75, 1\frac{1}{2}$

13. A recipe calls for 1.75 cups of apple juice and $\frac{1}{2}$ cup of nuts. How many cups of ingredients are needed in all? _____

14. The exercise numbers are listed below the blanks. Find the answer for each exercise above in the code. Write the letter on the blank to spell the name of a famous American inventor.

1 2 3 4 5 6 7 8 9 10 11 12 13

A = 1.25

H = $\frac{3}{10}$

N = $2\frac{1}{4}$

W = 1.9

B = $1\frac{1}{2}$

I = $2\frac{3}{4}$

O = 1.75

X = $3\frac{7}{8}$

D = 3.2

L = 2.5

S = $2\frac{7}{10}$

Y = $1\frac{8}{10}$

E = $2\frac{7}{8}$

M = $2\frac{5}{8}$

T = 0.5

Z = $3\frac{3}{10}$

Solve each problem below using your knowledge of decimals.

1. An animation specialist replayed 79 of the 1,000 computer frames he created for a cartoon character. Write a decimal for the part of the frames the animation specialist replayed.

2. Write two hundred thirty-six thousand and six hundred ten thousandths as a decimal.

3. Use the digits 0, 4 and 6 and a decimal point to write five different decimals.

4. Write 3 decimals between 4.85 and 4.86 in order from least to greatest.

5. Write 3 decimals between 5.417 and 5.418 in order from least to greatest.

6. Write the smallest possible decimal between zero and one that uses the digits 9, 0, 4, 2, 5, and 7 exactly once.

7. Write the greatest possible decimal between zero and one that uses the digits 9, 0, 3, 1, 6 and 5 exactly once.

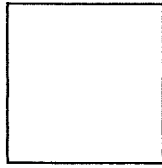
8. To make a miniature car, you need tires with a diameter between 0.385 inches and 0.391 inches. Will a tire that is 0.3795 inches in diameter work? Explain why or why not.

Picture Patterns

Use the pictures to find the pattern. Then complete the table.

Patterns

1.



Square piece of paper



1 fold



2 folds



3 folds



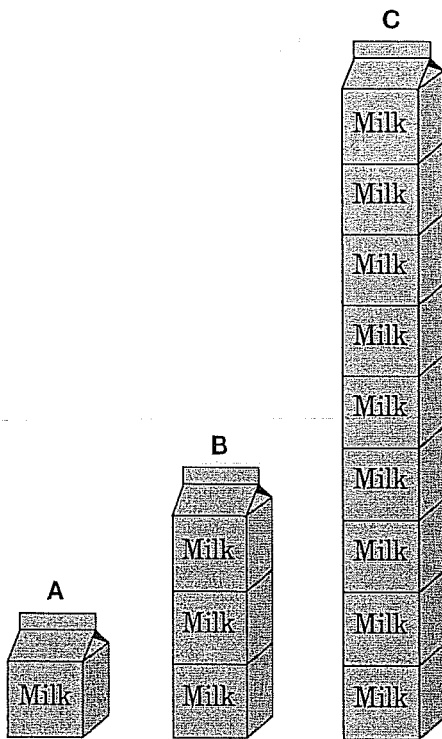
4 folds



5 folds

Number of folds	1	2	3	4	5
Number of parts	2	4	8		
Fraction for one part	$\frac{1}{2}$	$\frac{1}{4}$	$\frac{1}{8}$		

2.



Carton stack	A	B	C	D	E
Number of cartons	1	3			
Fraction for one carton	1	$\frac{1}{3}$			

3.

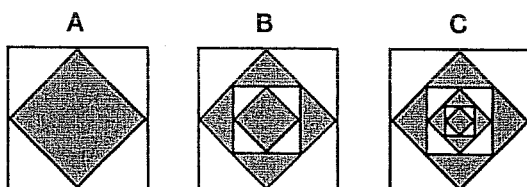


Figure	A	B	C	D	E
Number of squares	2				
Fraction of shaded squares	$\frac{1}{2}$				

Write the fractions/ mixed numbers below as decimals

$$\frac{6}{10} =$$

$$\frac{3}{5} =$$

$$\frac{4}{5} =$$

$$\frac{1}{5} =$$

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

$$\frac{8}{20} =$$

$$\frac{7}{20} =$$

$$\frac{15}{20} =$$

$$\frac{7}{25} =$$

$$\frac{12}{25} =$$

$$\frac{17}{20} =$$

$$\frac{49}{50} =$$

$$1 \frac{9}{10} =$$

$$1 \frac{1}{25} =$$

$$\frac{9}{50} =$$

$$6 \frac{15}{25} =$$

$$3 \frac{13}{20} =$$

$$18 \frac{17}{50} =$$



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Decimals Worksheet 1

Addition

1 a. $\underline{\quad} + 5.6 = 12.7$

1 b. $\underline{\quad} + 6.8 = 14.9$

2 a. $3.4 + \underline{\quad} = 7.7$

2 b. $4.4 + \underline{\quad} = 7.2$

3 a. $\underline{\quad} + 3.3 = 6.7$

3 b. $2.5 + \underline{\quad} = 6.2$

4 a. $8.8 + \underline{\quad} = 16.6$

4 b. $6.6 + \underline{\quad} = 8.9$

5 a. $\underline{\quad} + 4 = 12.5$

5 b. $\underline{\quad} + 2.6 = 7.4$

6 a. $\underline{\quad} + 1.8 = 2.3$

6 b. $\underline{\quad} + 4.6 = 7.4$

7 a. $\underline{\quad} + 2.6 = 6.1$

7 b. $\underline{\quad} + 1.2 = 2.6$

8 a. $\underline{\quad} + 0.8 = 9.1$

8 b. $8.8 + \underline{\quad} = 14.2$

9 a. $3.7 + \underline{\quad} = 4.6$

9 b. $8.3 + \underline{\quad} = 9.9$

10 a. $\underline{\quad} + 8.6 = 12.6$

10 b. $\underline{\quad} + 8.9 = 17.2$

Answer Key

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Student Name: _____

Score: _____

Decimals Addition Word Problems

Questions	Workspace
<p>Samson buys 3 bags which costs \$12.30, \$34.23 and \$23.19 respectively. How much does he need to pay?</p> <p>Answer:</p>	
<p>Kayla spends 1.23 hours for English reading, 1.40 hours for Math and 0.39 hours for Science. How many hours does she spend in study?</p> <p>Answer:</p>	
<p>Kelvin measures a plate in the shape of a triangle whose sides are 12.4 inches, 9.45 inches and 10.35 inches respectively. What is the perimeter of a triangular plate?</p> <p>Answer:</p>	
<p>Catherine buys tomato, chicken and onion weighs 2.12 kg, 1.45 kg and 3.19 kg respectively. What is the total weight of items bought?</p> <p>Answer:</p>	

Decimals Worksheet 4

Subtraction

$$\begin{array}{r} 1 \text{ a.} \quad 63.2 \\ - 59.04 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \text{ b.} \quad 69.068 \\ - 24.24 \\ \hline \end{array}$$

$$\begin{array}{r} 1 \text{ c.} \quad 82.8 \\ - 46.821 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \text{ a.} \quad 9.3 \\ - 2.2 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \text{ b.} \quad 79.85 \\ - 1.7 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \text{ c.} \quad 69.7 \\ - 42.512 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \text{ a.} \quad 97.1 \\ - 7.39 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \text{ b.} \quad 46.4 \\ - 5.178 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \text{ c.} \quad 93.553 \\ - 46.35 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \text{ a.} \quad 73.681 \\ - 7.9 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \text{ b.} \quad 83.88 \\ - 52.76 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \text{ c.} \quad 49.376 \\ - 37.956 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \text{ a.} \quad 30.55 \\ - 17.0 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \text{ b.} \quad 34.382 \\ - 9.8 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \text{ c.} \quad 41.77 \\ - 27.182 \\ \hline \end{array}$$

Student Name: _____

Score: _____

Decimals Subtraction Word Problems

Questions	Workspace
<p>Katherine buys cosmetic items which costs \$78.12 in total. She gives \$100 to the shop keeper. How much does she receive as balance?</p> <p>Answer:</p>	
<p>Kelly scores 56.73 points and Karen scores 74.92 points in a University exam. How many points less does Kelly get than Karen?</p> <p>Answer:</p>	
<p>A mixture is obtained by mixing two products A and B respectively. Product A weighs 234.56 grams and the mixture weighs 988.76 grams. How much does Product B weigh?</p> <p>Answer:</p>	
<p>David's home is 12.53 miles away from lake and 16.73 miles away from school. He can access school only through Lake Road. How long David's school is away from lake?</p> <p>Answer:</p>	

Name : _____

Score : _____

Teacher : _____

Date : _____

$$\begin{array}{r} 65.9 \\ \times 19.2 \\ \hline \end{array}$$

$$\begin{array}{r} 89.7 \\ \times 98.1 \\ \hline \end{array}$$

$$\begin{array}{r} 37.7 \\ \times 81.4 \\ \hline \end{array}$$

$$\begin{array}{r} 85.2 \\ \times 19.6 \\ \hline \end{array}$$

$$\begin{array}{r} 80.7 \\ \times 73.5 \\ \hline \end{array}$$

$$\begin{array}{r} 46.8 \\ \times 65.2 \\ \hline \end{array}$$

$$\begin{array}{r} 72.6 \\ \times 73.9 \\ \hline \end{array}$$

$$\begin{array}{r} 38.8 \\ \times 84.7 \\ \hline \end{array}$$

$$\begin{array}{r} 88.5 \\ \times 89.7 \\ \hline \end{array}$$

$$\begin{array}{r} 94.3 \\ \times 61.3 \\ \hline \end{array}$$

$$\begin{array}{r} 42.4 \\ \times 52.7 \\ \hline \end{array}$$

$$\begin{array}{r} 36.7 \\ \times 85.4 \\ \hline \end{array}$$

$$\begin{array}{r} 38.6 \\ \times 75.1 \\ \hline \end{array}$$

$$\begin{array}{r} 92.4 \\ \times 96.5 \\ \hline \end{array}$$

$$\begin{array}{r} 11.9 \\ \times 19.2 \\ \hline \end{array}$$

$$\begin{array}{r} 44.8 \\ \times 77.2 \\ \hline \end{array}$$

$$\begin{array}{r} 52.8 \\ \times 58.1 \\ \hline \end{array}$$

$$\begin{array}{r} 70.7 \\ \times 64.3 \\ \hline \end{array}$$

$$\begin{array}{r} 32.8 \\ \times 70.7 \\ \hline \end{array}$$

$$\begin{array}{r} 49.1 \\ \times 53.2 \\ \hline \end{array}$$

$$\begin{array}{r} 51.5 \\ \times 44.7 \\ \hline \end{array}$$

$$\begin{array}{r} 99.7 \\ \times 36.6 \\ \hline \end{array}$$

$$\begin{array}{r} 15.2 \\ \times 94.9 \\ \hline \end{array}$$

$$\begin{array}{r} 58.9 \\ \times 98.3 \\ \hline \end{array}$$

$$\begin{array}{r} 93.2 \\ \times 56.9 \\ \hline \end{array}$$

Student Name: _____

Score: _____

Decimals Multiplication Word Problems

Questions	Workspace
<p>Hamlet orders 9 pizzas each costs \$13.95. How much does he need to pay?</p> <p>Answer:</p>	
<p>A broken scale is used to measure the height of the plant. Length of the broken scale is 12 cm and height of the plant is 14.15 times greater than the broken scale. What is the height of the plant?</p> <p>Answer:</p>	
<p>Height and volume of a rectangular box is an inch and 56.23 inch^3 respectively. What is the volume of the box if the height is increased to 13 inches?</p> <p>Answer:</p>	
<p>David and Dora are close friends studying in the same school. David's home is 6.87 miles away from school. But Dora's home is 7 times as far as David's home from school? Find the distance between Dora's school and home.</p> <p>Answer:</p>	

Student Name: _____

Score: _____

Percent Worksheet

Find the percentage of the following:

Work Space

5 % of \$ 20= _____

17 % of 700 cm = _____

25 % of 32 chocolates = _____

48 % of 55 gallons of milk = _____

20 % of 30 inches of cloth= _____

Worksheet # 1

Find the answers to the percentage problems.

- 1.) The \$3.50 chocolate bar I purchased was on sale for 25% off, what did I pay for it?

- 2.) I got 40% off when I purchased a set of golf balls regularly priced at \$19.50. How much did I pay?

- 3.) My new headset was \$99.50 but it was on sale with 30% off. What will I have to pay for it?

- 4.) Our meal was \$39.50 but we got 20% off because it came late. What did our meal end up costing us?

- 5.) My new jersey was \$59.99 but I got 30% off. What did I pay?

- 6.) \$50.00 spring jackets were on sale for 30% off, how much are they now?

- 7.) My cell phone cost me \$149.50 to fix but the repair guy gave me 40% off so it only cost me?

- 8.) I didn't have to pay \$119.95 for my new wallet because it was on sale for 35% off so I only paid?

- 9.) The salesman gave me 20% off of my new laptop regularly priced \$519.95. What did I pay for it?

- 10.) Mini golf is usually \$14.50 to play but we got a 10% discount as it wasn't busy. What did we pay?

Decimals Worksheet 7

Division

1 a. $6.0 \div 6 = \underline{\quad}$

1 b. $7.7 \div 7 = \underline{\quad}$

2 a. $2.2 \div 2 = \underline{\quad}$

2 b. $9.2 \div 4 = \underline{\quad}$

3 a. $1.5 \div 3 = \underline{\quad}$

3 b. $2.8 \div 4 = \underline{\quad}$

4 a. $7.6 \div 4 = \underline{\quad}$

4 b. $8.7 \div 3 = \underline{\quad}$

5 a. $7.4 \div 2 = \underline{\quad}$

5 b. $0.9 \div 3 = \underline{\quad}$

6 a. $9.3 \div 3 = \underline{\quad}$

6 b. $9.8 \div 2 = \underline{\quad}$

7 a. $1.8 \div 3 = \underline{\quad}$

7 b. $1.8 \div 6 = \underline{\quad}$

8 a. $7.8 \div 2 = \underline{\quad}$

8 b. $5.2 \div 2 = \underline{\quad}$

9 a. $3.2 \div 8 = \underline{\quad}$

9 b. $5.2 \div 4 = \underline{\quad}$

10 a. $3.3 \div 3 = \underline{\quad}$

10 b. $1.4 \div 7 = \underline{\quad}$

Answer Key

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Student Name: _____

Score: _____

Decimals Division Word Problems

Questions	Workspace
<p>Catherine splits the rope of length 49.4 inches into 4 equal parts. What is the length of each part?</p> <p>Answer:</p>	
<p>Serene pays \$35.01 in order to buy 9 hot dogs. How much each hot dog cost?</p> <p>Answer:</p>	
<p>Diana sells 12 garlands for \$12.12. What is the cost of each garland?</p> <p>Answer:</p>	
<p>A shop keeper buys 26 apples from a fruit vendor for \$37.70. How much each apple cost?</p> <p>Answer:</p>	

