

# Alhuiteen schoo GRADE 5 


 prisms using formulas.
8. A freezer, shaped like a rectangular prism, is 6 feet long, 2 feet wide, and 3 feet tall. What is the volume of the freezer?
9. An Olympic swimming pool is 2 meters deep. What is the volume of the swimming pool?

10. Extend Your Thinking Do you agree or disagree with this statement? Justify your reasoning. When the edge lengths of a rectangular prism are doubled, the volume is also doubled.
b) Find the volume of composite
(4-5)

Draw line(s) to show how you decomposed the figure.
What is the volume of the figure?
4.

5.

$V=$ $\qquad$

$$
V=
$$

$\qquad$

Draw line(s) to show how you decomposed the figure.
What is the volume of the figure?
6.

7.

8. STEM Connection An ocean engineer is designing an underwater robot. The robot will have two pieces like the one shown. What is the volume of the robot?

9. A sign company made this letter using rectangular prisms. Each prism is 12 inches by 4 inches by 4 inches. What is the volume of the letter? Explain.

a) Compare two decimals to the

Compare the weights of these bags.

| anes | tenths | handeaths maserter |  |
| :---: | :---: | :---: | :---: |
| 3 | 2 | 8 | 1 |
| 3 | 9 |  |  |

$3.281 \bigcirc 3.9$

a) Compare two decimals to the
thousandths place using place value.
(1-9)

Write $>,<$, or $=$ in each $\bigcirc$ to make a true comparison.
You can use a place-value chart to help.

1. 7.790
8.7
2. $1.021 \bigcirc 1.095$
3. $6.55 \bigcirc 5.66$
4. $9.9 \bigcirc 0.99$
5. $3.41 \bigcirc$ 3.41
6. 2.563
 2.573

For exercises 7-9, use the cost of each school supply.

7. Do the pencils or the highlighters cost more?
8. Write a comparison statement for the cost of the pens and the pencils.
9. Which school supply is the most expensive? Which school supply is the least expensive? Explain how you know. thousandths using standard formexpanded form, and word form.

What is the word form of the decimal?

1. 8.2
2. 8.02
3. 0.82
4. 0.082

What is the standard form of the decimal?
5. $0.9+0.03+0.007$
6. $20+0.7+0.08+0.006$
7. $5+0.01+0.009$
8. $7+\frac{4}{10}+\frac{5}{1,000}$

What is each decimal in standard form?
What is each decimal in expanded form?
9. ninety-three and six thousandths
11. two hundred twelve and fifteen thousandths
10. three and eight hundred forty-six thousandths
12. seven hundred fifty-one thousandths
 thousandths using standard formexpanded form, and word form.
13. STEM Connection The Andromeda galaxy is $\mathbf{2 . 5 3 7}$ million light years from Earth. How can you write this decimal number in expanded form and in word form?

14. Kole wrote the decimal 34.821 in word form as thirty-four eight hundred twenty-one thousandths. Is he correct? Explain why or why not.
15. Extend Your Thinking Write the word forms of 321,578 and 321.578. What is the same? Explain why those similarities exist.
Use strategies to subtract decimals \&
Explain the strategy used to subtract
decimals.

Decompose by place value to find the difference.

1. $8.57-2.4$
$8.57-2=$ $\qquad$ $-0.4=$ $\qquad$
$8.57-2.4=$ $\qquad$ $7.73-5.1=$ $\qquad$
Explain the strategy used to subtract
decimals.

## What is the difference? Show your work.

5. $36.33-32.29=$ $\qquad$ 6. $48.56-18.21=$
6. $17.10-6.02=$ $\qquad$ 8. $25.50-11.49=$
$\qquad$

3 Use strategies to subtract decimals \& 13
Explain the strategy used to subtract decimals.

## 13. Decompose by place value to

 subtract. Show your work.(Lesson 4-7)
$5.70-2.08=$ $\qquad$

| 4 | Fluently multiply multi-digit whole <br> numbers using the standard algorithm. <br> - Use an area model and partial <br> products to multiply multi-digit whole <br> numbers <br> -Use partial products to help multiply <br> multi-digit factors. | 16 | Page :167 |
| :--- | :--- | :--- | :--- |

16. Fill in the area model and use partial products to find $53 \times 37$. (Lesson 5-5)


[^0]$\qquad$

Fluently multiply multi-digit whole numbers using the standard algorithm. - Use an area model and partial products to multiply multi-digit whole numbers
-Use partial products to help multiply multi-digit factors.

Complete the area model. Then solve to find the product.
1.

2.


What is the product? Use area models to solve.
3. $15 \times 24=$ $\qquad$
24

4. $28 \times 132=$ $\qquad$
132
28

5. $33 \times 78=$ $\qquad$ 6. $72 \times 225=$ $\qquad$

Write the multiplication equation based on the area model. Then solve to find the product.
7.

8.


Fluently multiply multi-digit whole numbers using the standard algorithm. - Use an area model and partial products to multiply multi-digit whole numbers
-Use partial products to help multiply multi-digit factors.

Find the unknown partial products. Then find the product.
1.

2.


What is the product? Use partial products to solve.
3.
17
4.
24
$\times 86$
$\begin{array}{r}129 \\ \times \\ \hline\end{array}$
5. 36
$\begin{array}{r} \\ \times 93 \\ \hline\end{array}$
6. 222 $\times 58$

a) Use decimal grids to help represent and solve multiplication equations involving decimals..

Write an equation and use a decimal grid to help you solve.

1. Laura pours 0.08 liter of milk into her tea each day. How much milk does Laura use in her tea in one week?

2. Tonya cuts 0.4 meter of ribbon for each gift she wraps. She wraps 6 gifts. How much ribbon does Tonya use?

a) Use decimal grids to help represent
and solve multiplication equations
involving decimals..
3. David rides 0.3 miles each day to school. Which model shows how far he rides in 5 days? (Lesson 6-3)
A.


C.


4. 


D.


b) Understand a variety of strategies to
(3-7) solve multiplication equations involving decimals.
3. Each bottle holds the same amount. How much water can these bottles hold?

4. Rebecca cut these ribbons to the same length. How much ribbon did Rebecca use in all?

6. A pitcher has a capacity of 3.9 liters. A cooler has a capacity 9.2 times greater. What is the capacity of the cooler?

Solve. Explain the strategy used to solve.
7. Kara has a bag of apples. Each apple weighs 0.4 pound on average. There are 17 apples in her bag. What is the total weight of her apples?

| 5 | b) Understand a variety of strategies to <br> solve multiplication equations <br> involving decimals. | Page :200 |
| :--- | :--- | :--- | :--- |

8. Deshaun cuts 0.8 meter of tape for each part of his project. There are 7 parts to his project. How much tape does Deshaun use?
(Lesson 6-6) solve multiplication equations involving decimals.
9. A recipe calls for 1.8 liters of milk. If the recipe needs to be tripled, how many liters of milk are needed? (Lesson 6-6)

Part 2
Type of Questions
موضوعى/MCQ
الارجات كلك سؤال
4 درجات

| Describe volume as an attribute of <br> solid figures. |
| :--- | :--- |

(1-7)

1. Which of these figures have volume? Justify your reasoning.



For the situation, would you measure the length, area, or volume? Explain.
2. the amount of soil needed to
3. the distance of a bike ride fill a flower pot
4. the amount of wall space covered by a poster

> 5. the amount of concrete needed to fill a patio
6. the space inside a moving truck
7. the distance around a building

Determine volume by counting unit cubes that fill a solid with no gaps or overlaps \& Determine volume by multiplying the number of unit cubes in one layer by the number of layers that fill a solid with no gaps or overlaps. oviaps \& Determine volume by

## Determine the volume of the figure.

1. 



Number of layers: $\qquad$
Number in each layer: $\qquad$ Volume: $\qquad$ cubic units
3.


Number of layers: $\qquad$
Number in each layer: $\qquad$
Volume: $\qquad$ cubic units
4.


Number of layers: $\qquad$
Number in each layer: $\qquad$
Volume: $\qquad$ cubic units
5. How can you determine the volume of the box?


What is the volume of the figure?

$\qquad$ cubic units
7.

$\qquad$ cubic units rectangular prisms using formulas..

Label the dimensions and then determine the volume of the figure.

$V=$ $\qquad$ cubic units
2.

$V=\ldots$ cubic units

What is the volume of the figure? Tell which volume formula you used and why.
3.

4.

5.

6.


| Explain how to find the volume of |
| :--- | :--- |
| rectangular prisms using formulas.. |

9. Whinich equation inepresents the diffierent ways to find the vollurme of these figulines?
(Lhessian 2-3)
Prism A:

2 units



2
unitus
A. $(4 \times 3) \times 2=4 \times(3 \times 2)$
B. $(3 \times 4) \times 2=(4 \times 3)+2$
C. $3 \times(4 \times 2)=(3 \times 4) \times(3 \times 2)$
D. $3 \times(4+2)=(3 \times 4)+(3 \times 2)$
11. The volumne of a rectangular prism is 48 cubic inches. Which could be the dimensions of the prism?
Select all that apply. ouesson 2-3)
A. Iength $=24$ inches
width $=1$ inch
height $=2$ inches
E. length $=6$ inches width $=6$ inches height $=4$ inches
C. Iength $=16$ inches width $=16$ inches height $=16$ inches
D. Iength $=12$ inches widith $=2$ inches
height $=2$ inches

| 9 | Extend the place value relationship to <br> decimal numbers \&Explain the <br> relationship of place values in decimal <br> numbers. | (1-6) | Page :69 |
| :--- | :--- | :--- | :--- |

1. Which of the following statements is true?
A. 0.009 is ten times 0.09
B. 0.09 is ten times 0.009
C. 0.09 is $\frac{1}{10}$ of 0.009
D. 9 is $\frac{1}{10}$ of 0.9
2. Which of the following statements is true?
A. 0.003 is $\frac{1}{10}$ of 0.03
B. 0.03 is $\frac{1}{10}$ of 0.003
C. 0.3 is ten times 0.003
D. 3 is ten times 0.03

Marcella has $\$ 5.00$, Niko has $\$ 0.50$, and Benjamin has $\$ 0.05$.
Use this information to complete each sentence.
3. Benjamin has $\qquad$ the money Niko has.
4. Marcella has $\qquad$ the money Niko has.

Complete each sentence.
5. $\$ 9.00$ is $\qquad$ $\$ 0.90$.
6. $\$ 0.90$ is $\qquad$ $\$ 9.00$.

Extend the place value relationship to
13-15) decimal numbers \& Explain the relationship of place values in decimal numbers.
13. Which of the following statements is true? (Lesson 3-2)
A. 0.002 is 10 times 0.02
B. 0.02 is $\frac{1}{10}$ of 0.002
C. 0.02 is 10 times 0.002
D. 2 is $\frac{1}{10}$ of 0.2
14. Complete the sentence. (Lesson 3-2)

7 is $\qquad$ 0.7.
15. Complete the sentence (Lesson 3-2)
0.05 is $\qquad$ 0.5.
10 decimals.
(1-10)

What is each decimal rounded to the nearest whole number? You can use a number line or place value.

1. 78.39
2. 4.07
$\boxed{ }$

## 3. 12.7

4. 15.55

What is each decimal rounded to the nearest tenth?
You can use a number line or place value.
5. 42.89
6. 3.65
9. Danica rounded a number to the nearest tenth to get 14.7 . What number could she have rounded to get this answer?
10. Which statements are true?
A. The decimal 43.678 rounded to the nearest tenth is 43.6 .
B. The decimal 43.678 rounded to the nearest tenth is 43.7 .
C. The decimal 43.678 rounded to the nearest hundredth is 43.68 .
D. The decimal 43.678 rounded to the nearest hundredth is 43.67 .
Use rounding strategies to round
decimals.
(11-13)
11. The masses of five different dogs are shown. Round each mass to the nearest whole number.

12. STEM Connection The mass of the sun takes up about $99.86 \%$ of the mass of our solar system. What is 99.86 rounded to the nearest tenth?

13. Which of the following numbers are closer to 100 ? Which are closer to 99?

$$
\begin{array}{lllll}
99.03 & 99.87 & 99.49 & 99.27 & 99.72
\end{array}
$$

10. The path around a lake is part stone and part dirt. About how long is the path around the lake?

11. Marcus's family is driving 354.3 miles to his grandmother's house. They have driven 209.7 miles. About how many more miles does Marcus's family have left to drive?
12. The winner of a skateboarding competition scored 87.83 points. The second-place skateboarder scored 81.50 points. About how many more points did the winner score than the second-place skateboarder?
13. Aaron has 1.3 meters of red yarn and 1.65 meters of purple yarn. Aaron says he has 2.95 meters of yarn. Is his answer reasonable? Explain.

| Estimate sums and differences of <br> decimals. | 6 |
| :--- | :--- |

Page :128
6. Wesley drove 81.23 miles before lunch and 49.49 miles after lunch.

Round each number to the nearest whole number to estimate of the total number of miles Wesley drove. (Lesson 4-1)
$\qquad$ $+$ $\qquad$ $=$ $\qquad$ tenths and hundredths
11. Write the addition equation represented by the decimal grids.


| 12 | Represent addition of decimals using <br> decimal grids \& Represent addition of <br> tenths and hundredths | 7 | Page :128 |
| :--- | :--- | :--- | :--- |

7. Look at the decimal grids.


Complete the addition equation
that is represented by the
decimal grids. (Lesson 4-2)
$0.7+$ $\qquad$ $=$ than 1 containing hundredths.

What is the difference? Use the decimal grid to solve.
1.
$0.7-0.1=$

3. $0.54-0.38=$

2. $0.09-0.02=$

4. $0.25-0.11=$

10. Use the decimal grid to solve
$0.31-0.07=$ d. (Lesson 4-5)


What is the value of $d$ ?
$d=$ $\qquad$
$14 \quad$ Write a power of 10 as a multiplication $\quad(1-4,13)$ expression with factors of 10.

Write the exponential form as a multiplication expression.

1. $10^{4}$
2. $10^{2}$
3. $10^{3}$
4. $10^{6}$
5. Rachel finds the value of $10^{5}$ as shown. Do you agree with her solution? Tell why.
$10^{5}=10 \times 5=50$

14 Write a power of 10 as a multiplication
expression with factors of 10 .

8
Page :166
$\square$
$\square$ Pa
8. Which expression or value is
equivalent to $10^{4}$ ? (Lesson 5-1)
A. 1,000
B. $10 \times 4$
C. $10 \times 10 \times 10 \times 10$
D. $10+10+10+10$ to determine if calculations are reasonable.

## Estimate the product.

## 1. $643 \times 18$

2. $325 \times 62$
3. $438 \times 27$
4. $572 \times 49$

| 15 |
| :--- |
| 15 Estimate products of multi-digit factors <br> to determine if calculations are <br> reasonable. <br> 15. Which equation represents the  |

best estimate for $367 \times 29$ ?
(Lesson 5-3)
A. $300 \times 20=6,000$
B. $300 \times 30=9,000$
C. $400 \times 20=8,000$
D. $400 \times 30=12,000$

| 16 | Multiply using an algorithm.. | $(1-4)$ | Page :157 |
| :--- | :--- | :--- | :--- |

## What is the product?

1. 


2. 543
$\begin{array}{r}8 \\ \times \quad 8 \\ \hline\end{array}$
3.

4.

3,462
$\begin{array}{r} \\ \times \quad 4 \\ \hline\end{array}$

| Use patterns to multiply a decimal by a <br> power of $10 \ldots$ | (1-4) | Page :175 |
| :--- | :--- | :--- |

Write the multiplication expression using factors of 10. Then, find the value.

1. $3.6 \times 10^{2}$
2. $7.2 \times 10^{3}$
3. $4.8 \times 10^{4}$
4. $1.9 \times 10^{2}$
Use patterns to multiply a decimal by a
power of $10 \ldots$
$(5,10)$ power of 10 ...
5. Which is equivalent to $7.6 \times 10^{3}$ ?
(Lesson 6-1)
A. 76
B. 760
C. 7,600
D. 76,000
6. Which expressions are equivalent
to 3,400 ? Choose all that apply.

## (Lesson 6-1)

A. $0.34 \times 10^{2}$
B. $0.34 \times 10^{3}$
C. $3.4 \times 10^{2}$
you're
D. $3.4 \times 10^{3}$
E. $34 \times 10^{2}$
F. $34 \times 10^{3}$

What is the product? Use patterns to solve.
4. $45 \times 17=765$
$45 \times 1.7=$ $\qquad$
$45 \times 0.17=$ $\qquad$
6. $16 \times 89=1,424$
$16 \times 8.9=$ $\qquad$
$16 \times 0.89=$ $\qquad$
8. $96 \times 55=$ $\qquad$
$96 \times 5.5=$ $\qquad$
$9.6 \times 5.5=52.8$
10. $67 \times 34=$ $\qquad$
$67 \times 3.4=$ $\qquad$
$6.7 \times 3.4=$ $\qquad$
5. $32 \times 14=$ $\qquad$
$32 \times 1.4=44.8$
$3.2 \times 1.4=$ $\qquad$
7. $61 \times 22=$ $\qquad$
$6.1 \times 22=134.2$
$6.1 \times 2.2=$ $\qquad$
9. $19 \times 42=$ $\qquad$
$1.9 \times 42=79.8$
$1.9 \times 4.2=$ $\qquad$
11. $82 \times 67=$ $\qquad$
$82 \times 6.7=$ $\qquad$
$8.2 \times 6.7=$ $\qquad$

| 18 | Use generalizations to determine the <br> placement of digits in a product. | 7 | Page : 200 |
| :--- | :--- | :--- | :--- |

7. Find the missing products.
(Lesson 6-5)
$23 \times 89=$
$23 \times 8.9=204.7$
$2.3 \times 8.9=$ $\qquad$ quotient when dividing by a multiple of 10..
8. There are 24,000 quarters in rolls of 40 quarters each. How many rolls of quarters are there?
9. Error Analysis Drew wants to solve $12,000 \div 20$ by starting with this basic fact: $12 \div 2=6$. Drew then uses patterns to find a quotient of 60 . Is Drew correct? If not, what mistake did he make?
10. STEM Connection A building has 20 floors.

The building has a total floor area of 40,000 square feet. What is the area of each floor? Explain.

| 19 | Use patterns to determine the <br> quotient when dividing by a multiple of <br> $10 .$. | 12 | Page : 238 |
| :--- | :--- | :--- | :--- |

12. There are 18,000 envelopes in packs of 60 . How many packs of envelopes are there? (Lesson 7-1)

## Solve for the unknown.

5. $396 \div 12=n$
$n \times 12=396$
6. $448 \div 16=s$
$s \times 16=448$

7. $312 \div 52=m$<br>$m \times 52=312$

8. $533 \div 41=a$
$a \times 41=533$

| 20 | Use the relationship between <br> multiplication and division to <br> determine the quotient when dividing <br> by a two-digit divisor | 7 | Page : 238 |
| :--- | :--- | :--- | :--- |

## 7. Write a multiplication equation you could use to solve $480 \div 12$. What is the solution?

(Lesson 7-3)



[^0]:    $53 \times 37=$

