

6th Grade



Grade 6 Math Learning Activities
April 6-24

Grade 6 Math Learning Plan		
Date	Topic	Instructional Video and Activity
Apr 6, 2020	Whole number operations	Watch the following video https://youtu.be/uCBm8iDygl5 Students solve questions and answer the puzzle <ul style="list-style-type: none"> • Grade 6 Math Puzzle 1
Apr 7, 2020	Powers and Exponents	Watch the following video https://youtu.be/XZRQhkii0h0 Students solve questions and answer the puzzle <ul style="list-style-type: none"> • Grade 6 Math Puzzle 2
Apr 8, 2020	Order and Operations	Watch the following video https://youtu.be/XZRQhkii0h0 Students solve questions and answer the puzzle <ul style="list-style-type: none"> • Grade 6 Math Puzzle 3
Apr 9, 2020	Prime Factorization	Watch the following video https://youtu.be/XZRQhkii0h0 Students solve questions and answer the puzzle <ul style="list-style-type: none"> • Grade 6 Math Puzzle 4
Apr 10, 2020	Greatest Common Factor	Watch the following video https://youtu.be/XZRQhkii0h0 Students solve questions and answer the puzzle <ul style="list-style-type: none"> • Grade 6 Math Puzzle 5
Apr 13, 2020	Least Common Multiple	Watch the following video https://youtu.be/znmPfdFsir8 Students solve questions and answer the puzzle <ul style="list-style-type: none"> • Grade 6 Math Puzzle 6
Apr 14, 2020	Multiplying Fractions	Watch the following video https://youtu.be/znmPfdFsir8 Students solve questions and answer the puzzle <ul style="list-style-type: none"> • Grade 6 Math Puzzle 7
Apr 15, 2020	Dividing Fractions	Watch the following video https://youtu.be/f3ySpxX9oeM Students solve questions and answer the puzzle <ul style="list-style-type: none"> • Grade 6 Math Puzzle 8
Apr 16, 2020	Dividing Mixed Numbers	Watch the following video https://youtu.be/f3ySpxX9oeM Students solve questions and answer the puzzle <ul style="list-style-type: none"> • Grade 6 Math Puzzle 9 •
Apr 17, 2020	Adding and Subtracting Decimals	Watch the following videos https://youtu.be/f3ySpxX9oeM https://youtu.be/f3ySpxX9oeM

		Students solve questions and answer the puzzle <ul style="list-style-type: none"> • Grade 6 Math Puzzle 10
Apr 20, 2020	Multiplying Decimals	Watch the following video https://youtu.be/f3ySpxX9oeM Students solve questions and answer the puzzle <ul style="list-style-type: none"> • Grade 6 Math Puzzle 11
Apr 21, 2020	Dividing Decimals	Watch the following video https://youtu.be/Nqts8zW8RxM Students solve questions and answer the puzzle <ul style="list-style-type: none"> • Grade 6 Math Puzzle 12
Apr 22, 2020	Algebraic Expressions	Watch the following video https://youtu.be/QlvMNYIP4Us Students solve questions and answer the puzzle <ul style="list-style-type: none"> • Grade 6 Math Puzzle 13
Apr 23, 2020	Writing Expressions	Watch the following video https://youtu.be/QlvMNYIP4Us Students solve questions and answer the puzzle <ul style="list-style-type: none"> • Grade 6 Math Puzzle 14
Apr 24, 2020	Properties of addition and Multiplication	Watch the following videos https://youtu.be/QlvMNYIP4Us https://youtu.be/zwDIA9159F4 https://youtu.be/QlvMNYIP4Us https://youtu.be/5RzDvNob0-0 Students solve questions and answer the puzzle <ul style="list-style-type: none"> • Grade 6 Math Puzzle 15

Students are encouraged to maintain contact with their home school and classroom teacher(s). If you have not already done so, please visit your child's school website to access individual teacher web pages for specific learning/assignment information. If you cannot reach your teacher and have elected to use these resources, please be mindful that some learning activities may require students to reply online, while others may require students to respond using paper and pencil. In the event online access is not available, please record responses on paper. Completed work should be dropped off at your child's school. Please contact your child's school for the dates and times to drop off your child's work.

If you need additional resources to support virtual learning, please visit: <https://www.slps.org/extendedresources>



Puzzle Time

Did You Hear About The...

A	B	C	D	E	F
G	H	I	J	K	L
M	N	O	P	Q	

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

320 FOR
4436 TEST
181,632 BECAUSE
40 TO
4091 SPIDER
15,275 CAR
52 FAST
4460 TO
$44\frac{17}{164}$ IT
6 WANTED
18,622 WEB

Find the value of the expression.

- | | |
|----------------------|-------------------------|
| A. $3328 + 763$ | B. $6462 + 2841$ |
| C. $2857 + 2788$ | D. $8583 - 4123$ |
| E. $6054 - 1618$ | F. $3527 - 2072$ |
| G. 73×26 | H. 235×65 |
| I. 528×344 | J. $24 \overline{)864}$ |
| K. $432 \div 72$ | L. $8960 \div 224$ |
| M. $\frac{5409}{50}$ | N. $\frac{7233}{164}$ |
- O. Piano lessons cost \$20 per week. How much will it cost, in dollars, for 16 weeks of piano lessons?
- P. The scores of the first two football games were 28 and 35. What was the total number of points scored in the first two football games?
- Q. The school store has 14 boxes of notebooks with the school mascot on them. If there are 980 notebooks, how many notebooks are in each box?

5645 ASKED
$108\frac{9}{50}$ TAKE
63 A
1455 DRIVE
60 SIGN
1898 A
70 SPIN
36 HE
7 BUMPER
9303 THAT
11 LIMIT

1.2 Puzzle Time

Did You Hear About...

A	B	C	D	E	F
G	H	I	J	K	L
M	N	O	P	Q	

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

15 HITS	<p>Write the product as a power.</p> <p>A. 8×8 B. 12×12</p> <p>C. $3 \times 3 \times 3 \times 3 \times 3$ D. $9 \bullet 9 \bullet 9 \bullet 9$</p> <p>E. $5 \bullet 5 \bullet 5$ F. $4 \bullet 4 \bullet 4 \bullet 4 \bullet 4 \bullet 4$</p> <p>G. $11 \bullet 11 \bullet 11 \bullet 11 \bullet 11$ H. $7 \times 7 \times 7$</p> <p>Find the value of the power.</p> <p>I. 2^4 J. 3^3</p> <p>K. 4^3 L. 10^4</p> <p>M. 6^2 N. 5^2</p> <p>Determine whether the number is a perfect square.</p> <p>O. 12 P. 144</p> <p>Q. You are arranging chairs in the auditorium for the talent show. The number of rows is to be the same as the number of chairs per row. You will need a total of 225 chairs. How many chairs will be in each row?</p>	25 A
5^3 CREATED		12^2 BASEBALL
46 CATCHER		10,000 TO
27 HE		8^2 THE
No LOT		56 INNING
7^3 SITE		9^4 WHO
64 WANTED		72 HOMERUN
11^5 WEB		4^6 A
36 GET		Yes OF
3^5 PLAYER		16 BECAUSE
71 SURF	17 STRIKE	

1.3 Puzzle Time

Which King Was Purple and Had Many Wives?

Write the letter of each answer in the box containing the exercise number.

Evaluate the expression.

1. $15 + 8 \div 2$
2. $3 \times 7 - 2 \times 3$
3. $(6 + 10) \div 2$
4. $4 \times (12 - 4)$
5. $3^2 + 4^2 + 2^2$
6. $(15 - 10)^2 + (15 - 5)^2$
7. $33 \div 11 \times 12 \div 2$
8. $9(3 + 2) - 3(8 - 7)$
9. $7 \times (6 - 3)^2$
10. $20 - 4^2 + 3^3$
11. $\left(\frac{1}{3} + 2\frac{2}{3}\right) \times 13$
12. $60 \div \left(6\frac{1}{7} - \frac{1}{7}\right) \times 4$
13. $(0.6 + 7.4)^2 - 14$
14. $4 \times (10.1 + 1.9) \div 2$
15. $\frac{2^4 \times 5 + 8}{4}$
16. $\frac{5(12 - 5) + 13}{6 + 2}$
17. You plan to practice playing guitar for 15 minutes on three weekdays and 20 minutes each on Saturday and Sunday. Evaluate the expression $15 \times 3 + 20 \times 2$ to find the number of minutes you will practice during the entire week.

Answers

- E. 18
- N. 22
- N. 29
- R. 50
- P. 6
- H. 15
- G. 85
- T. 31
- R. 24
- E. 19
- G. 42
- A. 8
- E. 125
- I. 39
- K. 32
- Y. 63
- H. 40

4	11	15	8		12	1	5	13	9		10	2	6		17	14	3	16	7
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1.4 Puzzle Time

Did You Hear About...

A	B	C	D	E	F
G	H	I	J	K	L
M	N	O	P	Q	R
S					

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

1, 63; 3, 21; 7, 9 A	List the factor pairs of the number. A. 18 B. 36 C. 41 D. 55 E. 63 F. 87	1, 36; 2, 18; 3, 12; 4, 9; 6, 6 CAMPER
90 TO		400 SUNRISE
$3^2 \cdot 5$ BAG	Write the prime factorization of the number. G. 12 H. 45 I. 60 J. 33 K. 81 L. 75	1, 87; 3, 29 NEW
$3 \cdot 5^2$ SPEND	Find the number represented by the prime factorization. M. $2 \cdot 5 \cdot 17$ N. $2^2 \cdot 3^2 \cdot 7$ O. $2^2 \cdot 5 \cdot 11$ P. $2 \cdot 3^2 \cdot 5$ Q. $2^2 \cdot 3 \cdot 5^2$ R. $2 \cdot 3 \cdot 5^2$	$2^2 \cdot 3 \cdot 5$ AND
3^4 TO		170 TWO
1, 18; 2, 9; 3, 6 THE	S. The football cheerleaders consist of 16 members. The cheerleading coach places the cheerleaders in rows. Each row has the same number of members. Find the possible row arrangements.	5^2 NIGHT
300 WAKE		1, 41 WHO
$3 \cdot 11$ HAD		150 IT
252 WEEKS		220 TRYING
1, 55; 5, 11 BOUGHT		$2^2 \cdot 3$ SLEEPING
1, 16; 2, 8; 4, 4 UP		



Puzzle Time

Why Did The Horse Put On A Blanket?

Circle the letter of each correct answer in the boxes below. The circled letters will spell out the answer to the riddle.

Find the GCF of the numbers.

- | | | |
|----------------|----------------|-----------------|
| 1. 12, 28 | 2. 15, 60 | 3. 9, 24 |
| 4. 16, 72 | 5. 35, 56 | 6. 33, 46 |
| 7. 26, 52 | 8. 45, 54 | 9. 42, 54 |
| 10. 34, 85 | 11. 48, 64 | 12. 77, 121 |
| 13. 20, 30, 90 | 14. 42, 63, 84 | 15. 36, 54, 108 |

Solve.

16. Your local minor league baseball team has 120 ball caps, 180 miniature baseball keychains, and 240 glow in the dark bracelets to give away to children on opening day. The items will be split into identical sets with no items left over. Each child will receive one set of items. What is the greatest number of children that will receive a set of items on opening day?

A	H	E	B	E	G	H	W	I	L	A	T	S	B	A	L	L	B	I
99	11	2	31	9	50	5	26	43	29	4	40	17	32	8	25	16	76	10
A	T	X	E	T	K	R	L	T	E	A	R	C	R	O	W	L	A	T
22	7	55	24	15	34	30	18	28	3	19	100	21	35	6	27	1	81	60

1.6 Puzzle Time

What Does A Computer Do When It Gets Hungry?

Write the letter of each answer in the box containing the exercise number.

Find the LCM of the numbers.

- 1. 5, 9
- 2. 2, 11
- 3. 12, 16
- 4. 3, 8
- 5. 7, 9
- 6. 10, 14
- 7. 13, 39
- 8. 30, 45
- 9. 14, 21
- 10. 6, 10
- 11. 15, 20
- 12. 18, 24
- 13. 2, 3, 11
- 14. 2, 4, 6
- 15. 8, 10, 16
- 16. One local radio station plays a commercial every 6 minutes. Another local radio station plays a commercial every 9 minutes. Both radio stations just played commercials. How many minutes will pass before both local radio stations play commercials again at the same time?

Answers

- T. 60
- E. 22
- E. 42
- B. 63
- E. 72
- T. 80
- S. 70
- Y. 12
- T. 45
- G. 30
- O. 39
- T. 18
- I. 24
- A. 90
- T. 66
- A. 48

4	13		10	2	15	6		8		5	14	1	12		16	7		9	3	11
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2.1 Puzzle Time

Why Did The Turkey Volunteer To Be The Drummer In The Popular Bird Band?

Write the letter of each answer in the box containing the exercise number.

Multiply. Write the answer in simplest form.

- | | | |
|---------------------------------------|--|---|
| 1. $\frac{1}{8} \times \frac{3}{5}$ | 2. $\frac{1}{6} \times \frac{3}{8}$ | 3. $\frac{3}{4} \times \frac{9}{13}$ |
| 4. $\frac{5}{6} \times \frac{6}{7}$ | 5. $\frac{5}{16} \times \frac{1}{10}$ | 6. $\frac{3}{14} \times 12$ |
| 7. $8 \times \frac{9}{10}$ | 8. $\frac{5}{7} \times \frac{5}{8}$ | 9. $\frac{14}{15} \times \frac{5}{7}$ |
| 10. $1\frac{1}{4} \times \frac{3}{4}$ | 11. $7\frac{1}{2} \times \frac{4}{5}$ | 12. $\frac{5}{8} \times 1\frac{3}{5}$ |
| 13. $6\frac{1}{4} \times \frac{2}{5}$ | 14. $2\frac{7}{10} \times \frac{5}{9}$ | 15. $\frac{2}{9} \times 3\frac{1}{6}$ |
| 16. $1\frac{5}{7} \times 21$ | 17. $4\frac{3}{8} \times 2\frac{2}{7}$ | 18. $\frac{1}{8} \times \frac{3}{5} \times \frac{2}{3}$ |
| 19. $\frac{6}{7} \cdot \frac{6}{7}$ | 20. $\left(\frac{2}{5}\right)^2$ | 21. $\left(\frac{3}{4}\right)^2 \cdot \frac{1}{3}$ |

22. The photo of you and your friends at the local amusement park has a length of $5\frac{1}{3}$ inches and a width of $3\frac{1}{4}$ inches. Find the area in square inches of the photo of you and your friends.

Answers for 1-22.

S. $7\frac{1}{5}$	C. $\frac{27}{52}$
A. $\frac{3}{40}$	E. $\frac{19}{27}$
Y. $\frac{2}{3}$	D. $2\frac{1}{2}$
H. $\frac{1}{16}$	U. 36
L. $\frac{1}{20}$	D. $1\frac{1}{2}$
A. $\frac{4}{25}$	D. $\frac{1}{32}$
E. $\frac{3}{16}$	R. $\frac{15}{16}$
R. 1	T. 6
K. $\frac{36}{49}$	I. 10
A. $2\frac{4}{7}$	M. $\frac{5}{7}$
H. $\frac{25}{56}$	S. $17\frac{1}{3}$

2	15		6	18	10	21	1	13	9		8	20	5		14	12	16	4	22	11	17	3	19	7
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2.2 Puzzle Time

Why Was The Gentleman Who Was Selling Watches Unhappy?

Write the letter of each answer in the box containing the exercise number.

Write the reciprocal of the number.

1. 5 2. 12 3. $\frac{2}{3}$
 4. $\frac{4}{9}$ 5. $\frac{7}{6}$ 6. $\frac{1}{8}$

Divide. Write the answer in simplest form.

7. $\frac{1}{16} \div \frac{1}{8}$ 8. $\frac{6}{7} \div \frac{3}{5}$ 9. $14 \div \frac{2}{7}$
 10. $\frac{5}{8} \div 10$ 11. $\frac{14}{15} \div 7$ 12. $\frac{5}{24} \div \frac{5}{6}$
 13. $\frac{9}{20} \div \frac{3}{4}$ 14. $\frac{1}{4} \div \frac{1}{36}$ 15. $\frac{7}{8} \div 28$
 16. $3 \div \frac{2}{3}$ 17. $\frac{3}{14} \div \frac{9}{11}$ 18. $18 \div \frac{9}{13}$
 19. $\frac{1}{9} \div 9 \div 9$ 20. $3 \div \frac{9}{11} + \frac{1}{3}$ 21. $\frac{1}{2} + \frac{7}{8} \div \frac{11}{24}$
 22. $\frac{5}{12} \times \frac{2}{3} \div \frac{2}{9}$ 23. $\frac{8}{21} \div \frac{2}{3} \times \frac{4}{9}$ 24. $\frac{9}{16} \div 18 \div 8$

25. There are 3 pieces of pizza left. How many $\frac{1}{4}$ pieces of pizza can be sliced from the 3 pieces of pizza?

Answers for 1–6.

A. $\frac{6}{7}$ M. $\frac{9}{4}$ H. $\frac{1}{5}$
 O. 8 N. $\frac{3}{2}$ S. $\frac{1}{12}$

Answers for 7–25.

A. $\frac{11}{42}$ N. $4\frac{1}{2}$ I. 49
 O. $\frac{2}{15}$ H. $\frac{1}{2}$ L. 26
 S. 9 I. $\frac{3}{5}$ D. $\frac{1}{16}$
 F. $1\frac{3}{7}$ T. $\frac{1}{32}$ H. $\frac{1}{4}$
 O. 12 H. $2\frac{9}{22}$ E. $\frac{1}{256}$
 A. $1\frac{1}{4}$ E. $\frac{1}{729}$ T. 4
 D. $\frac{16}{63}$

12	24		1	22	10		17		18	25	15		11	8		20	9	4	19	
6	16		21	13	2		7	5	3	23	14									

2.3 Puzzle Time

What Does An Ant Use To Keep All Of Its Hair In Place?

Write the letter of each answer in the box containing the exercise number.

Divide. Write the answer in simplest form.

1. $1\frac{3}{5} \div \frac{4}{5}$

2. $5\frac{1}{4} \div \frac{3}{4}$

3. $12\frac{2}{5} \div \frac{1}{5}$

4. $2\frac{2}{3} \div 2\frac{2}{3}$

5. $7\frac{1}{7} \div \frac{10}{11}$

6. $3\frac{1}{6} \div \frac{5}{6}$

7. $\frac{7}{9} \div 2\frac{13}{18}$

8. $12\frac{1}{2} \div 15$

9. $14 \div 9\frac{1}{3}$

10. $5\frac{1}{8} \div 6\frac{5}{6}$

11. $3\frac{5}{8} \div 5\frac{4}{5}$

12. $16 \div 4\frac{2}{3}$

13. $4\frac{1}{4} \div \frac{1}{8}$

14. $17 \div 2\frac{4}{15} + 2\frac{5}{12}$

15. $1\frac{3}{7} \div \frac{5}{6} \div 4\frac{4}{5}$

16. $2\frac{5}{8} \div 1\frac{5}{9} \times 1\frac{1}{9}$

17. $2\frac{3}{11} + \frac{4}{9} \div 1\frac{7}{15}$

Answers	
E. $1\frac{7}{8}$	A. $3\frac{3}{7}$
G. 1	D. $1\frac{1}{2}$
H. 2	P. $\frac{2}{7}$
R. 34	X. $\frac{5}{8}$
U. $7\frac{6}{7}$	Y. 7
A. $9\frac{11}{12}$	O. $2\frac{19}{33}$
T. $\frac{5}{6}$	B. $\frac{3}{4}$
L. 62	S. $3\frac{4}{5}$
R. $\frac{5}{14}$	

16	11	8	13	14		1	17	3	9		10	5	4		6	7	15	12	2
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2.4 Puzzle Time

Did You Hear About...

A	B	C	D	E	F
G	H	I	J	K	L
M	N	O	P	Q	

Complete each exercise. Find the answer in the answer column. Write the word under the answer in the box containing the exercise letter.

44.5 BEAK
11.524 ELECTRIC
3.31 A
4.883 HE
17.2 BULB
5.65 HAVE
6.485 BIRD
8.012 SWITCH
7.652 WATER
2.633 SO
11.11 POND
40.059 HIS

Add.

- A. $8.93 + 2.108$
- B. $2.6 + 3.885$
- C. $23.938 + 9.06$
- D. $19.46 + 12.657$
- E. $28.551 + 11.508$
- F. $26.367 + 18.133$

Subtract.

- G. $5.69 - 4.23$
- H. $7.518 - 4.208$
- I. $5.87 - 3.725$
- J. $16.242 - 12.68$
- K. $24.6 - 21.967$
- L. $26.73 - 21.847$

Evaluate the expression.

- M. $7.206 + 9.3 + 4.186$
- N. $23.7 - 13.397 - 4.653$
- O. $26.46 + 8.715 - 14.065$
- P. $17.6 - 14.56 + 8.484$
- Q. The rectangular sandbox at the local community park has a width of 24.5 meters and its length is 31.7 meters. What is the perimeter, in meters, of the rectangular sandbox?

32.998 WHO
20.692 COULD
41.691 BRIGHT
11.038 THE
112.4 BILL
2.145 LIGHT
21.11 AN
32.117 STUCK
3.562 SOCKET
1.46 INTO
43.21 DUCK
28.51 KILOWATT

2.5 Puzzle Time

How Did The Goblin Football Player Score The Winning Touchdown?

Write the letter of each answer in the box containing the exercise number.

Multiply.

1. 3.8×8

2. 5.1×8

3. 5.08×7

4. 2.24×3

5. 2.563×3

6. 0.024×8

7. 0.072×3

8. 0.0029×6

9.
$$\begin{array}{r} 0.8 \\ \times 0.3 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 0.07 \\ \times 0.2 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 0.006 \\ \times 0.04 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 0.0009 \\ \times 0.08 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 0.003 \\ \times 0.9 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 0.0007 \\ \times 0.005 \\ \hline \end{array}$$

15. 2.25×4.46

16. 2.042×6.408

Evaluate the expression.

17. $3.1 \times 5 + 9$

18. $8.2(2.3 + 1.7)$

19. $2^2 \times 3.3 + 7.645$

20. $9.645 \times 3 \times 10$

21. A football weighs approximately 0.42 kilogram. The physical education teacher needs to purchase a dozen footballs. What will be the total weight, in kilograms, of the footballs to calculate shipping and handling?

Answers

O. 30.4

R. 0.24

N. 0.014

E. 0.00024

H. 0.000072

I. 0.0027

L. 289.35

H. 0.192

V. 0.0174

U. 5.04

O. 0.0000035

T. 32.8

E. 24.5

A. 20.845

G. 40.8

E. 0.216

H. 10.035

N. 35.56

R. 6.72

E. 7.689

L. 13.085136

6	17		9	19	3		1	8	11	4		18	12	5		2	15	14	21	16		20	13	10	7
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2.6 Puzzle Time

Why Did The Young Lady Go Buzz Buzz In The Hallway?

Write the letter of each answer in the box containing the exercise number.

Divide.

1. $5 \overline{)39.5}$

2. $8 \overline{)33.6}$

3. $17 \overline{)19.618}$

4. $12 \overline{)52.8}$

5. $45.87 \div 6$

6. $51.288 \div 4$

7. $15.75 \div 18$

8. $3.2 \div 0.4$

9. $0.07 \overline{)0.84}$

10. $3.2 \overline{)41.6}$

11. $4.9 \overline{)68.6}$

12. $0.5 \overline{)17.7}$

13. $50.56 \div 0.8$

14. $22.4 \div 0.04$

15. $33.6 \div 0.3$

16. $0.861 \div 0.7$

17. The perimeter of each face of a Rubik's cube is 22.2 centimeters. What is the length of an edge of a Rubik's cube?

Answers

T. 7.645

A. 12

S. 13

S. 7.9

E. 4.2

H. 12.822

E. 560

A. 1.23

T. 5.55

E. 14

S. 63.2

U. 1.154

E. 0.875

D. 112

N. 35.4

B. 8

W. 4.4

13	6	11		4	16	1		9		8	2	14		10	17	3	15	7	12	5
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3.1 Puzzle Time

Why Were King Edward's Soldiers Too Tired To Fight?

Write the letter of each answer in the box containing the exercise number.

Write each expression using exponents.

1. $a \cdot a \cdot a \cdot a$ 2. $6 \cdot y \cdot y$
 3. $\frac{1}{4} \cdot c \cdot c \cdot d \cdot d$ 4. $9.8 \cdot m \cdot m \cdot m \cdot n \cdot n$

Evaluate the expression when $a = 4$, $b = 3$, and $c = 10$.

5. $5 + a$ 6. $c - 2.5$ 7. $2.8 \div a$
 8. $13\frac{3}{5} - b$ 9. $\frac{5a}{8}$ 10. $\frac{c}{5} - \frac{a}{2}$
 11. $a \cdot b \cdot c$ 12. $c^2 - ab$

Evaluate the expression when $a = 12$, $b = 5$, and $c = 2$.

13. $3a + 4$ 14. $5c - 6.7$ 15. $\frac{a}{5} + 4$
 16. $\frac{26}{b} + 8.8$ 17. $c^2 + \frac{2}{3}$ 18. $\frac{a^2}{12} - 2.4$
 19. $\frac{a}{6} + 7c$ 20. $bc + 11.2$ 21. $\frac{6a}{c} - 2$
 22. $\frac{ab}{6} - 3c$

Answers	
Y. $10\frac{3}{5}$	G. $9.8m^3n^2$
S. 14	S. $2\frac{1}{2}$
E. a^4	T. $6\frac{2}{5}$
H. 0	D. $4\frac{2}{3}$
N. 258	H. $6y^2$
L. 88	T. 120
S. 4	E. 34
S. $\frac{1}{4}c^2d^2$	I. 40
E. 21.2	A. 9
P. 3.3	E. 9.6
K. 7.5	L. 0.7
H. 16	

23. The expression $12a + 7s$ is the cost, in dollars, for a adults and s students to enter the local marching band competition. Find the total cost for 4 adults and 30 students.

11	2	21	8		10	5	17		22	12	18	1	14	7	20	16	3		6	23	13	4	19	15	9
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Puzzle Time

What's A Mouse's Favorite Television Show?

Write the letter of each answer in the box containing the exercise number.

Write the phrase as an expression.

1. 4.2 less than 7.6
2. $27\frac{1}{5}$ divided by 9
3. the total of $7\frac{1}{6}$ and $13\frac{1}{8}$
4. 3 times a number x
5. $10\frac{1}{3}$ subtracted from a number x
6. the quotient of 17 and a number x
7. the difference of a number x and 6.4
8. a number x squared
9. 15.6 times a number x

Write the phrase as an expression. Then, evaluate the expression when $x = 4$ and $y = 24$.

10. the sum of a number x and $19\frac{3}{5}$
11. a number x multiplied by 14.2
12. 5 less than a quotient of a number y and 2
13. the sum of a number x and 8, all divided by 3
14. 8.6 more than the product of 3 and a number y
15. Your friend has read 6 more than twice as many pages as your sister has read. Let x be the number of pages your sister has read. Write an expression for the number of pages your friend has read.

Answers

<p>R. $7\frac{1}{6} + 13\frac{1}{8}$</p> <p>N. $3x$</p> <p>F. $7.6 - 4.2$</p> <p>E. $17 \div x$</p> <p>U. $27\frac{1}{5} \div 9$</p> <p>T. 4</p> <p>Q. $2x + 6$</p> <p>L. 7</p>	<p>E. $15.6x$</p> <p>U. x^2</p> <p>S. $x - 6.4$</p> <p>A. $x - 10\frac{1}{3}$</p> <p>O. $23\frac{3}{5}$</p> <p>F. 80.6</p> <p>O. 56.8</p>
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7	15	2	9	5	12		10	1		14	11	3	13	8	4	6
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3.3 Puzzle Time

Why Was A Book In The Frying Pan On The Stove?

Write the letter of each answer in the box containing the exercise number.

Tell which property is illustrated by the statement.

1. $\frac{1}{4} \cdot x = x \cdot \frac{1}{4}$
2. $3 + (11 + p) = (3 + 11) + p$
3. $6 \cdot (r \cdot 9) = (6 \cdot r) \cdot 9$
4. $c + 13.4 = 13.4 + c$
5. $\left(y + 7\frac{1}{8}\right) + 0 = y + 7\frac{1}{8}$
6. $b \cdot 1 = b$

Simplify the expression.

7. $5 + (4 + x)$
8. $7(3x)$
9. $(0 + x) + 6\frac{1}{2}$
10. $11.2 \cdot x \cdot 3$
11. $\left(6x + 5\frac{1}{3}\right) + 4\frac{1}{3}$
12. $(5x) \cdot 12$
13. $(17.3 \cdot x) \cdot 1$
14. $x \cdot 0 \cdot 16$

Answers for 1–6.

- B. Addition Property of Zero
- O. Commutative Property of Addition
- A. Multiplication Property of One
- K. Associative Property of Addition
- T. Commutative Property of Multiplication
- O. Associative Property of Multiplication

Answers for 7–14.

- C. $60x$
- O. $x + 6\frac{1}{2}$
- K. $21x$
- I. $33.6x$
- S. $9 + x$
- A. 0
- O. $6x + 9\frac{2}{3}$
- W. $17.3x$

10	1		13	6	7		14		12	3	11	8	5	4	9	2
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