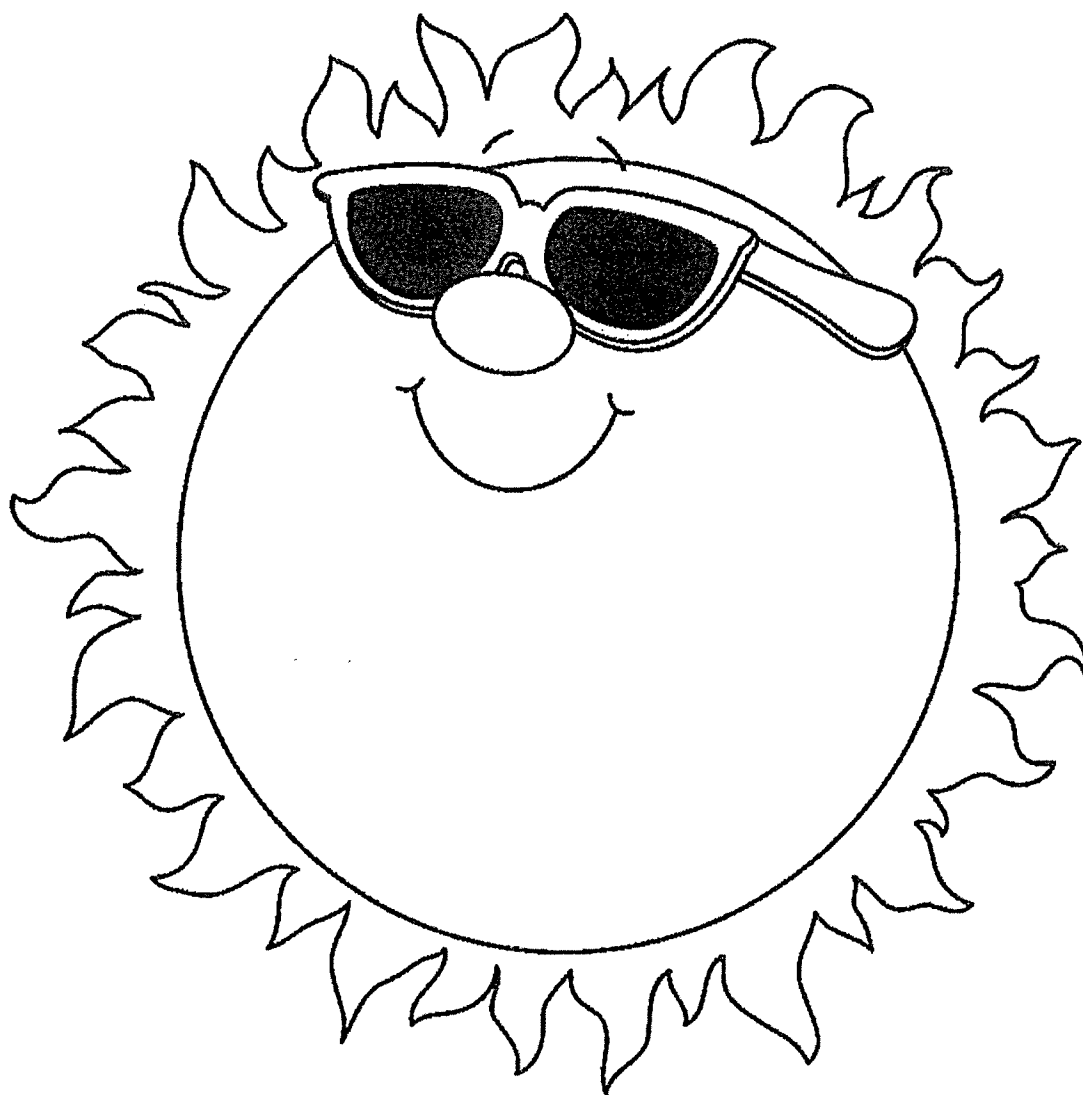


DCES Summer Math for students entering 6th Grade

Name: _____



School's out for summer but don't let those math skills slide! Your teachers have carefully chosen a collection of practice activities that cover a range of content that you have learned this school year. There are 16 pages in all, so 1-2 pages per week throughout the summer will have you all set for next school year; spread it out for best results. Remember, you still have access to digital resources like Freckle, IXL, etc. until the end of July, but if you need more support, ask your parents to sit with you or do an internet search for an instructional video that covers the topic. You will turn in your math packet for practice points to your math teacher in August. We hope you have a safe, blessed and MATH-TASTIC summer break!

Place Value to Billions

Name _____

Date _____

Billions			Millions			Thousands			Ones		
hundreds	tens	ones	hundreds	tens	ones	hundreds	tens	ones	hundreds	tens	ones
		8	5	0	6	7	3	4	0	2	0

Standard Form:

8,506,734,020

Word Name: eight billion,

five hundred six million,

seven hundred thirty-four thousand,
twenty

Write the place of the underlined digit. Then write its value.

- 671,248,101 _____
- 4,725,921,001 _____
- 50,978,206,978 _____
- 72,360,521,000 _____
- 141,624,805,093 _____
- 850,139,122,952 _____

Write the number in standard form.

- four hundred three million,
seventy one thousand, two hundred

- nine billion, seven million, six hundred two

- eighty-six billion, twelve thousand,
four hundred sixty

- one hundred ten billion,
three hundred thousand

- four hundred billion, six

- twenty-four million

- 180 million

- 925 billion

Write the word name for each number. Use short word names when you can.

- 13,481,309,526 _____
- 750,000,000,000 _____
- 191,000,000 _____

Expanded Form

Name _____

Date _____

2

Standard
Form

Expanded Form

$$\begin{array}{l} \boxed{4,260,048} = (4 \times 1,000,000) + (2 \times 100,000) + (6 \times 10,000) + (4 \times 10) + (8 \times 1) \\ = 4,000,000 + 200,000 + 60,000 + 40 + 8 \end{array}$$

Complete the expanded form of each number.

1. $2894 = (\underline{\hspace{1cm}} \times 1,000) + (8 \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times 10) + (\underline{\hspace{1cm}} \times 1)$
2. $36,805 = (3 \times \underline{\hspace{1cm}}) + (6 \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times 100) + (\underline{\hspace{1cm}} \times 1)$
3. $6,497,000 = (\underline{\hspace{1cm}} \times 1,000,000) + (4 \times \underline{\hspace{1cm}}) + (9 \times \underline{\hspace{1cm}}) + (7 \times \underline{\hspace{1cm}})$
4. $83,750,446 = (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times 100,000) + (5 \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + (4 \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}})$
5. $120,004,962 = (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + (2 \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times 100) + (6 \times \underline{\hspace{1cm}}) + (\underline{\hspace{1cm}} \times \underline{\hspace{1cm}})$

Write each in standard form.

6. $70,000 + 40 = \underline{\hspace{2cm}}$
7. $3000 + 80 + 2 = \underline{\hspace{2cm}}$
8. $600,000 + 500 + 10 + 6 = \underline{\hspace{2cm}}$
9. $2,000,000,000 + 90,000,000 + 1,000,000 + 700,000 = \underline{\hspace{2cm}}$
10. $5,000,000,000 + 200,000,000 + 90,000,000 + 10,000 + 400 + 8 = \underline{\hspace{2cm}}$

Write in expanded form.

11. 786,300 _____
12. 1,022,004 _____
13. 329,400,090 _____
14. 4,005,678,910 _____

Write a, b, c, or d to answer questions 15–17.

- a. 732,045 b. 372,405 c. 327,540 d. 723,504

15. In which number does the 7 show how many one thousands? _____
16. Which numbers show 3 hundred thousands? _____
17. Which numbers show the same number of hundreds? _____

Problem Solving

18. Recently, the population of London was 7,421,209. Write this number in expanded form. _____

Compare and Order Numbers

Name _____

Date _____

3

Order from least to greatest: 3581, 3851, 3158, 3285

Align by place value.

3581

3851

3158

3285

Compare the digits in each place, starting at the left.

3 = 3

1 < 2, 2 < 5, 5 < 8

The order from least to greatest: 3158, 3285, 3581, 3851

To compare and order decimals, use the same rules for comparing and ordering whole numbers.

Compare. Write <, =, or >.

1. 347,693 _____ 347,764

2. 5,178,240 _____ 50,100,299

3. 675,167 _____ 675,157

4. 0.45 _____ 4.5

5. 0.02 _____ 0.020

6. 5.842 _____ 0.584

7. 8,621,905 _____ 8,621,935

8. 937,435,010 _____ 937,350,119

9. 6,054,835,199 _____ 654,835,199

10. 24,009,075 _____ 24,090,750

Write in order from least to greatest.

11. 92,248; 93,248; 93,148; 94,000 _____

12. 612,038; 621,038; 622,037; 612,037 _____

13. 7,835,620; 7,835,590; 7,825,780; 783,590 _____

14. 38; 0.38; 3.8 _____

15. 0.01; 0.1; 0.001 _____

16. 2.213; 2.243; 2.231 _____

17. 0.67; 0.668; 0.68 _____

Write in order from greatest to least.

18. 326,500; 326,050; 326,005; 326,505 _____

19. 11,450; 111,450; 111,540; 1,145,000 _____

20. 6,974,000; 6,447,000; 6,947,000; 699,999 _____

21. 3.58; 0.358; 35.8 _____

22. 9.70; 9.07; 90.7 _____

23. 1.063; 1.633; 1.033 _____

24. 21.240; 21.426; 21.264 _____

Estimate Sums and Differences

Name _____

Date _____

Front-End Estimation

$$\begin{array}{r} 5263 \\ 2886 \\ 694 \\ + 7243 \\ \hline \end{array} \begin{array}{l} > \text{about } 1000 \\ > \text{about } 1000 \end{array}$$

rough estimate: 14,000
adjusted estimate:
 $14,000 + 1000 + 1000 = 16,000$

Rounding

$$\begin{array}{r} 5263 \rightarrow 5300 \\ 2886 \rightarrow 2900 \\ 694 \rightarrow 700 \\ + 7243 \rightarrow + 7200 \\ \hline 16,100 \end{array}$$

Estimate the sum. Use front-end estimation.
Then use rounding.

1. $\begin{array}{r} 7463 \\ 7529 \\ + 3984 \\ \hline \end{array}$

2. $\begin{array}{r} 4903 \\ 3746 \\ + 888 \\ \hline \end{array}$

3. $\begin{array}{r} 1634 \\ 271 \\ + 1115 \\ \hline \end{array}$

4. $\begin{array}{r} 4316 \\ 4010 \\ + 2757 \\ \hline \end{array}$

5. $\begin{array}{r} 9925 \\ 8395 \\ + 4093 \\ \hline \end{array}$

6. $\begin{array}{r} 8052 \\ 9894 \\ + 2584 \\ \hline \end{array}$

7. $\begin{array}{r} \$418.75 \\ 69.46 \\ + 293.68 \\ \hline \end{array}$

8. $\begin{array}{r} \$343.90 \\ 69.25 \\ + 211.03 \\ \hline \end{array}$

9. $6327 + 4896 + 2929 =$ _____

10. $\$281.17 + \$91.87 + \$329.67 =$ _____

11. $\$468.20 + \$205.11 + \$191.62 =$ _____

12. $\$570.10 + \$101.01 + \$75.50 =$ _____

Estimate the difference. Use front-end estimation.
Then use rounding.

13. $\begin{array}{r} 8578 \\ - 7231 \\ \hline \end{array}$

14. $\begin{array}{r} \$99.93 \\ - 4.41 \\ \hline \end{array}$

15. $\begin{array}{r} 9415 \\ - 373 \\ \hline \end{array}$

16. $\begin{array}{r} \$81.99 \\ - 32.75 \\ \hline \end{array}$

17. $\begin{array}{r} 5992 \\ - 4069 \\ \hline \end{array}$

18. $\begin{array}{r} 9450 \\ - 6846 \\ \hline \end{array}$

19. $\begin{array}{r} \$323.41 \\ - 13.19 \\ \hline \end{array}$

20. $\begin{array}{r} 6150 \\ - 3891 \\ \hline \end{array}$

21. $8792 - 7128 =$ _____

22. $\$63.17 - \$14.92 =$ _____

Problem Solving

23. On a business trip a salesperson drove 372 miles the first day, 338 miles the second day, and 178 miles the third day. Estimate her total mileage.

Order of Operations

Name _____

Date _____

Compute: $(80 \div 2) - 2 \times (3 \times 5)$

- Do the operations within parentheses first.
- Multiply or divide from left to right.
- Add or subtract from left to right.

$$\begin{array}{rcl}
 (80 \div 2) - 2 \times (3 \times 5) & & \\
 \downarrow & & \downarrow \\
 40 - 2 \times 15 & & \\
 & & \downarrow \\
 40 - 30 & & \\
 40 - 30 = 10 & &
 \end{array}$$

Use the order of operations to compute.

- | | |
|--|---|
| 1. $5 - 8 \div 2 + 7$ _____ | 2. $20 \div 4 + 3 \times 6$ _____ |
| 3. $(8 \times 7) + (56 \div 8)$ _____ | 4. $(42 - 12) \div (7 + 3)$ _____ |
| 5. $30 + 18 \div 3 - 12$ _____ | 6. $24 - 9 \div 3 \times 5$ _____ |
| 7. $2 + 6 \times 10 \div 30 + 7$ _____ | 8. $19 + 63 \div 9 \times 3 - 13$ _____ |
| 9. $59 - 35 \div 7 \times 4 + 53$ _____ | 10. $50 - 12 \div 3 \times 2$ _____ |
| 11. $20 \div 4 - 4 + (81 \div 9)$ _____ | 12. $25 - 6 \times 4 + (23 - 3) - 4$ _____ |
| 13. $(42 - 6) + 5 - 3 + (8 \times 3)$ _____ | 14. $3 + (37 - 1) \div 9 + (18 + 3)$ _____ |
| 15. $(5 \times 9) \div 5 + (8 \div 8)$ _____ | 16. $(64 \div 8) - 5 + (33 \times 3)$ _____ |
| 17. $(35 - 10) \div (4 + 1)$ _____ | 18. $20 + 6 \div (4 - 2)$ _____ |
| 19. $(6 \times 9) + (63 \div 7)$ _____ | 20. $32 \div 8 + 4 + (6 \times 0)$ _____ |
| 21. $(42 + 10) \div (4 \div 2)$ _____ | 22. $(55 - 15) \div (5 \times 2)$ _____ |
| 23. $(8 \times 8) + (9 \times 1)$ _____ | 24. $35 \div 7 + 5 - (7 \times 1)$ _____ |

Addition and Subtraction of Decimals

Name _____

Date _____

Add: $58.3 + 74.1 + 19.8 = ?$

- Align the decimal points.
- Add. Regroup if necessary.
- Write the decimal point in the sum.

$$\begin{array}{r} 21 \\ 58.3 \\ 74.1 \\ + 19.8 \\ \hline 152.2 \end{array}$$

Subtract: $0.085 - 0.0094 = ?$

- Align the decimal points.
- Subtract. Regroup if necessary.
- Write the decimal point in the difference.

$$\begin{array}{r} 14 \\ 7 \cancel{4} 10 \\ 0.0850 \\ - 0.0094 \\ \hline 0.0756 \end{array}$$

Find the sum.

- | | | | | |
|---|--|--|--|---|
| 1. $\begin{array}{r} 0.47 \\ 0.5 \\ 0.78 \\ + 0.29 \\ \hline \end{array}$ | 2. $\begin{array}{r} 1.68 \\ 3.7 \\ 6.34 \\ + 9.5 \\ \hline \end{array}$ | 3. $\begin{array}{r} 12.09 \\ 14.04 \\ 20.35 \\ + 3.6 \\ \hline \end{array}$ | 4. $\begin{array}{r} 15.04 \\ 3.12 \\ 10.02 \\ + 0.46 \\ \hline \end{array}$ | 5. $\begin{array}{r} \$10.36 \\ 3.14 \\ 8.24 \\ + 2.03 \\ \hline \end{array}$ |
|---|--|--|--|---|

- | | | | | |
|--|--|---|--|--|
| 6. $\begin{array}{r} 205.319 \\ + 499.161 \\ \hline \end{array}$ | 7. $\begin{array}{r} 719.274 \\ 225.601 \\ + 46.9 \\ \hline \end{array}$ | 8. $\begin{array}{r} 0.378 \\ 0.0957 \\ + 0.0154 \\ \hline \end{array}$ | 9. $\begin{array}{r} 472.665 \\ 996.7 \\ 9.13129 \\ + 125.672 \\ \hline \end{array}$ | 10. $\begin{array}{r} 0.079 \\ 4.45562 \\ 19.263 \\ + 75.4174 \\ \hline \end{array}$ |
|--|--|---|--|--|

Find the difference.

- | | | | | |
|---|--|--|--|--|
| 11. $\begin{array}{r} 0.6932 \\ - 0.3481 \\ \hline \end{array}$ | 12. $\begin{array}{r} 0.5 \\ - 0.3889 \\ \hline \end{array}$ | 13. $\begin{array}{r} 0.81 \\ - 0.687 \\ \hline \end{array}$ | 14. $\begin{array}{r} 10.43 \\ - 4.921 \\ \hline \end{array}$ | 15. $\begin{array}{r} 72.1 \\ - 12.385 \\ \hline \end{array}$ |
| 16. $\begin{array}{r} 36.2 \\ - 24.3295 \\ \hline \end{array}$ | 17. $\begin{array}{r} \$12.00 \\ - 8.32 \\ \hline \end{array}$ | 18. $\begin{array}{r} 16.537 \\ - 8.7 \\ \hline \end{array}$ | 19. $\begin{array}{r} \$13.00 \\ - 7.94 \\ \hline \end{array}$ | 20. $\begin{array}{r} 4.013 \\ - 0.0987 \\ \hline \end{array}$ |

Align and add or subtract.

- | | |
|---|--|
| 21. $2655.04 + 976.903 + 699.8 =$ _____ | 22. $0.57 + 63.6941 + 554.109 =$ _____ |
| 23. $9433.04 - 6002.395 =$ _____ | 24. $1.620493 - 0.62717 =$ _____ |

Problem Solving

25. Roman buys a sandwich for \$3.95. There is also \$.32 tax. He gives the cashier a \$20 bill. How much change should Roman get? _____
26. Laura wants 5 lb of nuts for her mixture. She buys 0.75 lb peanuts, 2.6 lb cashews, and 1.08 lb walnuts. How many more lb of nuts does she need? _____

Multiplying 3-Digit by 2-Digit Numbers with Various Decimal Places (A)
--

Name: _____

Date: _____

Calculate each product.

$$\begin{array}{r} 68.2 \\ \times 8.4 \\ \hline \end{array}$$

$$\begin{array}{r} 630 \\ \times 1.2 \\ \hline \end{array}$$

$$\begin{array}{r} 16.0 \\ \times 36 \\ \hline \end{array}$$

$$\begin{array}{r} 5.52 \\ \times 0.25 \\ \hline \end{array}$$

$$\begin{array}{r} 32.3 \\ \times 26 \\ \hline \end{array}$$

$$\begin{array}{r} 7.91 \\ \times 0.19 \\ \hline \end{array}$$

$$\begin{array}{r} 26.3 \\ \times 7.8 \\ \hline \end{array}$$

$$\begin{array}{r} 3.07 \\ \times 19 \\ \hline \end{array}$$

$$\begin{array}{r} 63.2 \\ \times 8.5 \\ \hline \end{array}$$

$$\begin{array}{r} 0.394 \\ \times 70 \\ \hline \end{array}$$

$$\begin{array}{r} 55.8 \\ \times 9.4 \\ \hline \end{array}$$

$$\begin{array}{r} 596 \\ \times 3.6 \\ \hline \end{array}$$

$$\begin{array}{r} 940 \\ \times 8.2 \\ \hline \end{array}$$

$$\begin{array}{r} 203 \\ \times 42 \\ \hline \end{array}$$

$$\begin{array}{r} 0.707 \\ \times 0.97 \\ \hline \end{array}$$

$$\begin{array}{r} 906 \\ \times 64 \\ \hline \end{array}$$

$$\begin{array}{r} 310 \\ \times 1.8 \\ \hline \end{array}$$

$$\begin{array}{r} 520 \\ \times 0.92 \\ \hline \end{array}$$

$$\begin{array}{r} 131 \\ \times 0.41 \\ \hline \end{array}$$

$$\begin{array}{r} 6.00 \\ \times 5.1 \\ \hline \end{array}$$

$$\begin{array}{r} 0.913 \\ \times 56 \\ \hline \end{array}$$

$$\begin{array}{r} 12.8 \\ \times 3.8 \\ \hline \end{array}$$

$$\begin{array}{r} 52.2 \\ \times 2.3 \\ \hline \end{array}$$

$$\begin{array}{r} 0.394 \\ \times 76 \\ \hline \end{array}$$

$$\begin{array}{r} 0.411 \\ \times 0.35 \\ \hline \end{array}$$

Dividing Decimals by Whole Numbers (C)

Find each quotient.

$$4 \overline{) 0.4}$$

$$9 \overline{) 7.7}$$

$$3 \overline{) 5.4}$$

$$6 \overline{) 3.8}$$

*will
repeat!*

*will
repeat!*

$$5 \overline{) 0.4}$$

$$2 \overline{) 9.2}$$

$$9 \overline{) 9.9}$$

$$2 \overline{) 0.3}$$

*add
a
zero!*

*add
a
zero!*

$$4 \overline{) 8.6}$$

$$8 \overline{) 6.8}$$

$$8 \overline{) 6.0}$$

$$7 \overline{) 9.8}$$

Multiply and Divide by Positive Powers of Ten (A)

Find each product or quotient.

$$9.15 \div 10^3 =$$

$$9.7 \times 10^1 =$$

$$0.3 \div 10^3 =$$

$$2.134 \div 10^2 =$$

$$2.4784 \times 10^3 =$$

$$2.318 \div 10^3 =$$

$$5.615 \div 10^1 =$$

$$7.5077 \div 10^3 =$$

$$9.8116 \times 10^2 =$$

$$7.7169 \div 10^1 =$$

Converting Fractions (A)

Name: _____

Date: _____

Convert mixed to improper fractions and improper to mixed fractions.

$$\frac{10}{3} = \text{---}$$

$$\frac{19}{4} = \text{---}$$

$$1\frac{5}{9} = \text{---}$$

$$\frac{82}{15} = \text{---}$$

$$4\frac{11}{12} = \text{---}$$

$$1\frac{5}{12} = \text{---}$$

$$4\frac{9}{10} = \text{---}$$

$$6\frac{5}{7} = \text{---}$$

$$9\frac{8}{15} = \text{---}$$

$$1\frac{7}{9} = \text{---}$$

$$\frac{43}{7} = \text{---}$$

$$6\frac{1}{6} = \text{---}$$

* Need common denominators! *¹⁰

Adding and Subtracting Fractions (A)

Find the value of each expression in lowest terms.

1. $\frac{7}{4} - \frac{8}{5}$

5. $\frac{3}{2} - \frac{9}{7}$

9. $\frac{4}{3} - \frac{2}{5}$

2. $\frac{23}{2} + \frac{9}{4}$

6. $\frac{7}{10} + \frac{2}{5}$

10. $\frac{5}{2} + \frac{2}{3}$

Adding and Subtracting Mixed Fractions (A)

Find the value of each expression in lowest terms.

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

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

9. $3\frac{1}{2} - 1\frac{1}{2}$

2. $3\frac{1}{2} - 2\frac{2}{3}$

6. $3\frac{1}{2} - 2\frac{5}{9}$

10. $5\frac{1}{2} + 5\frac{1}{4}$

Multiplying and Dividing Fractions (A)

Find the value of each expression in lowest terms.

1. $\frac{1}{2} \times \frac{5}{4}$

6. $\frac{1}{4} \times \frac{5}{3}$

11. $\frac{10}{3} \times \frac{11}{6}$

2. $\frac{1}{6} \div \frac{8}{11}$

7. $\frac{11}{2} \div \frac{1}{2}$

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

3. $\frac{1}{3} \div \frac{13}{9}$

8. $\frac{4}{3} \div \frac{11}{12}$

13. $\frac{14}{9} \times \frac{7}{10}$

Multiplying and Dividing Mixed Fractions (A)

Find the value of each expression in lowest terms.

1. $3\frac{2}{7} \div 1\frac{1}{4}$

6. $1\frac{1}{3} \times 1\frac{2}{3}$

11. $1\frac{3}{8} \div 1\frac{1}{12}$

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

7. $1\frac{1}{3} \times 2\frac{1}{5}$

12. $2\frac{7}{8} \div 5\frac{1}{2}$

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

8. $2\frac{1}{7} \div 2\frac{1}{2}$

13. $3\frac{2}{3} \div 1\frac{1}{6}$

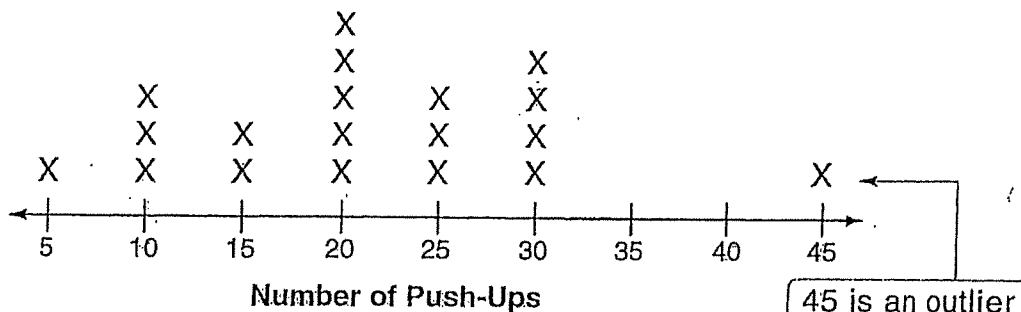
Line Plots

Name _____

13

Date _____

The line plot shows the number of push-ups the members of the soccer team were able to do.



Use the line plot above to answer questions 1–5.

- What is the mode of the data? _____
- What is the range of the data? _____
- Around which number do the data seem to cluster? _____
- How many team members could do 20 or more push-ups? _____
- How many team members could do fewer than 20 push-ups? _____

Draw a line plot for each set of data. Find the range, mode, and an outlier.

- Donovan's basketball scores: 14, 17, 19, 18, 16, 18, 17, 21, 15, 18, 16, 14, 16, 18, 15

Range: _____

Mode: _____

Outlier: _____

- Edie's math scores: 83, 93, 78, 85, 85, 87, 88, 90, 84

Range: _____

Mode: _____

Outlier: _____

Areas of Rectangles and Squares

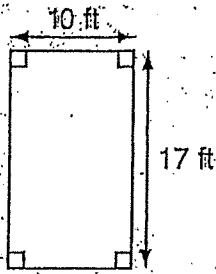
Name _____ 14
Date _____

Rectangles

$$A = l \times w$$

$$A = 17 \text{ ft} \times 10 \text{ ft}$$

$$A = 170 \text{ ft}^2$$

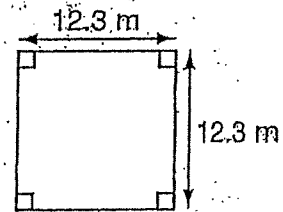


Squares

$$A = s \times s = s^2$$

$$A = 12.3 \text{ m} \times 12.3 \text{ m}$$

$$A = 151.29 \text{ m}^2$$



Find the area of each rectangle.

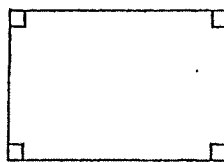
1. $2\frac{1}{2} \text{ ft}$



$8\frac{1}{5} \text{ ft}$

2.

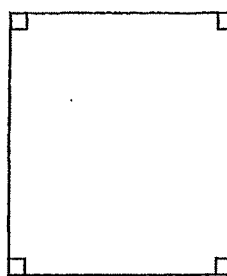
6.4 km



4.9 km

3.

6 cm



$7\frac{1}{2} \text{ cm}$

4.

15.6 mm



25.4 mm

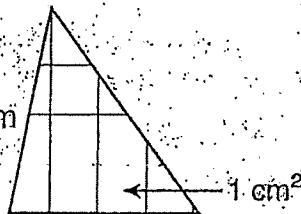
Areas of Parallelograms and Triangles

Name _____
Date _____

$$A = \frac{1}{2} \times b \times h$$

$$A = \frac{1}{2} \times 4 \text{ cm} \times 4 \text{ cm}$$

$$A = 8 \text{ cm}^2$$

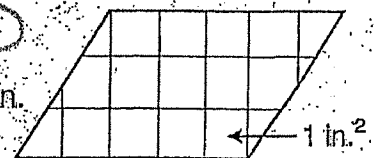


1 cm^2

$$A = b \times h$$

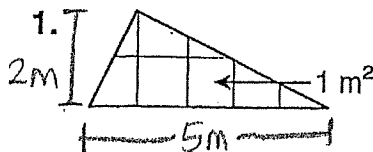
$$A = 5 \text{ in.} \times 3 \text{ in.}$$

$$A = 15 \text{ in.}^2$$



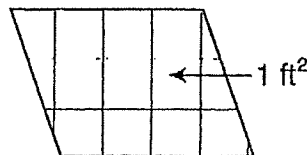
1 in.^2

Find the area.



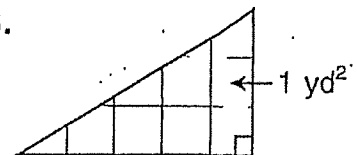
1 m^2

2.



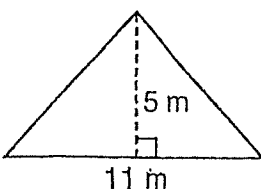
1 ft^2

3.

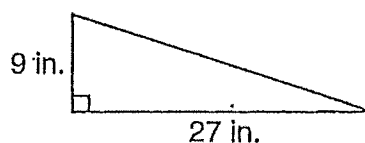


1 yd^2

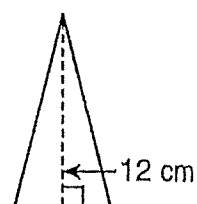
4.



5.



6.

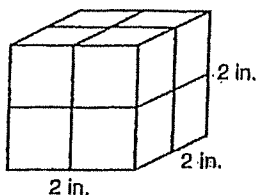


Volume of Prisms

Name _____ 15

Date _____

Volume of a Cube

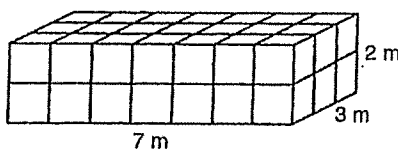


$$V = e^3$$

$$V = 2^3 \text{ or } 2 \times 2 \times 2$$

$$V = 8 \text{ in.}^3$$

Volume of a Rectangular Prism

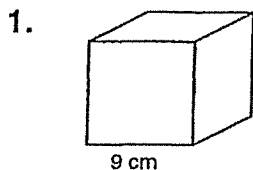
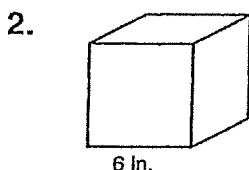
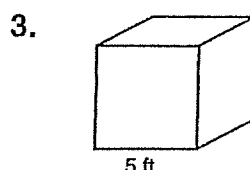
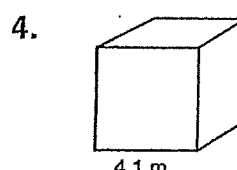


$$V = \ell \times w \times h$$

$$V = 7 \times 3 \times 2$$

$$V = 42 \text{ m}^3$$

Find the volume of each cube.

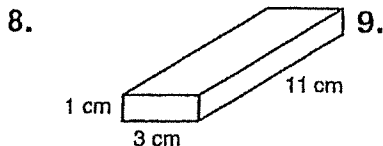
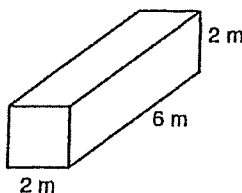
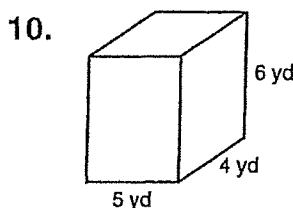
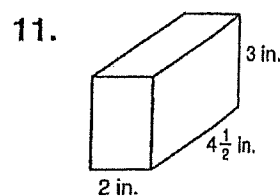


5. $e = 7\frac{1}{2} \text{ ft}$

6. $e = 1.2 \text{ cm}$

7. $e = 6.1 \text{ mm}$

Find the volume of each rectangular prism.



12. $\ell = 4 \text{ cm}$
 $w = 1.2 \text{ cm}$
 $h = 3.1 \text{ cm}$

13. $\ell = 3 \text{ ft}$
 $w = 1\frac{1}{4} \text{ ft}$
 $h = 2\frac{1}{3} \text{ ft}$

14. $\ell = 10 \text{ m}$
 $w = 8.4 \text{ m}$
 $h = 5 \text{ m}$

Problem Solving

15. Find the volume of a cube-shaped box that measures 40 cm along one edge.
16. A box is 10 in. long, 8 in. wide, and 2 in. high. How many cubes that measure 1 in. on each edge will fit inside the box?
17. Find the volume of a swimming pool that is 24 ft long, 15 ft wide, and 5 ft deep.

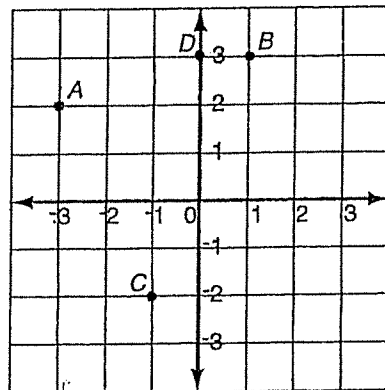
The Coordinate Plane

Name _____

Date _____

16

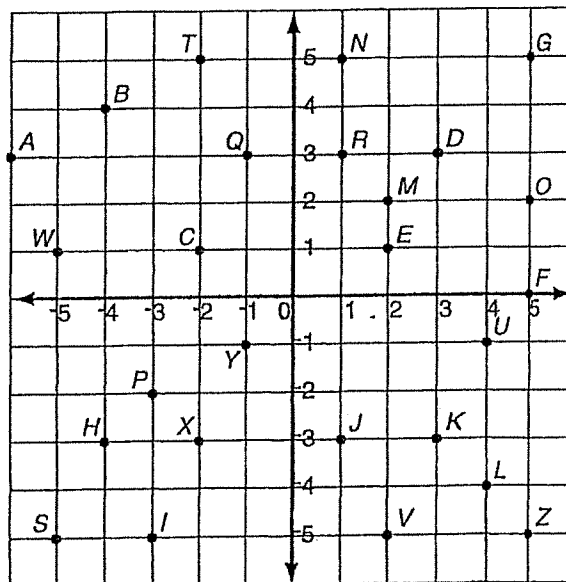
Point A is located at $(-3, 2)$.
 Point B is located at $(1, 3)$.
 Point C is located at $(-1, -2)$.
 Point D is located at $(0, 3)$.



X value
Y value

Use the grid on the right for exercises 1–12.
 Name the point for each set of coordinates.

1. $(-4, 4)$ B
2. $(2, 1)$ _____
3. $(-4, -3)$ _____
4. $(3, -3)$ _____
5. $(1, 3)$ _____
6. $(2, 2)$ _____
7. $(-1, 3)$ _____
8. $(5, 0)$ _____
9. $(4, -4)$ _____
10. $(-2, 5)$ _____
11. $(-5, 1)$ _____
12. $(2, -5)$ _____



Use the grid on the right for exercises 13–21.
 Name the point to complete the chart.

Point	Coordinates
13. <u>A</u>	$(-4, 2)$
14.	$(-3, 4)$
15.	$(-1, 4)$
16.	$(0, -1)$
17.	$(-3, -3)$
18.	$(-4, -1)$
19.	$(3, 5)$
20.	$(5, 2)$
21.	$(1, 2)$

