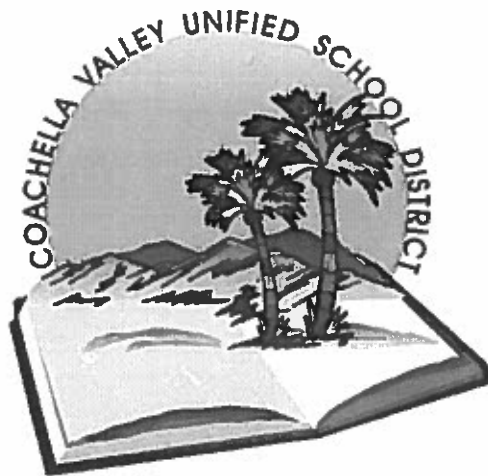


6th GRADE MATH WORKBOOK



Name : _____

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Teacher : _____

Date : _____

$$\begin{array}{r} 97_ \\ + _79 \\ \hline 11_7 \end{array}$$

$$\begin{array}{r} 2_8 \\ + _34 \\ \hline 53_ \end{array}$$

$$\begin{array}{r} 5_5 \\ + _8_ \\ \hline 1491 \end{array}$$

$$\begin{array}{r} 1_1 \\ + _06 \\ \hline 39_ \end{array}$$

$$\begin{array}{r} 8_2 \\ + _6_ \\ \hline 1205 \end{array}$$

$$\begin{array}{r} _5_ \\ + 3_3 \\ \hline 1120 \end{array}$$

$$\begin{array}{r} 1_7 \\ + _24 \\ \hline 64_ \end{array}$$

$$\begin{array}{r} 1_3 \\ + _9_ \\ \hline 422 \end{array}$$

$$\begin{array}{r} _29 \\ + 46_ \\ \hline 12_5 \end{array}$$

$$\begin{array}{r} 7_2 \\ + _7_ \\ \hline 916 \end{array}$$

$$\begin{array}{r} _03 \\ + 2_1 \\ \hline 56_ \end{array}$$

$$\begin{array}{r} 3_4 \\ + _53 \\ \hline 52_ \end{array}$$

$$\begin{array}{r} 8_6 \\ + 72_ \\ \hline 1_42 \end{array}$$

$$\begin{array}{r} _7_ \\ + 319 \\ \hline 12_8 \end{array}$$

$$\begin{array}{r} 7_7 \\ + 23_ \\ \hline _99 \end{array}$$

$$\begin{array}{r} 64_ \\ + _42 \\ \hline 14_8 \end{array}$$

$$\begin{array}{r} _92 \\ + 9_0 \\ \hline 127_ \end{array}$$

$$\begin{array}{r} 3_9 \\ + 58_ \\ \hline _29 \end{array}$$

$$\begin{array}{r} 1_8 \\ + _08 \\ \hline 39_ \end{array}$$

$$\begin{array}{r} 622 \\ + _3_ \\ \hline 10_1 \end{array}$$

$$\begin{array}{r} _9_ \\ + 5_0 \\ \hline 1319 \end{array}$$

$$\begin{array}{r} _0_ \\ + 534 \\ \hline 6_8 \end{array}$$

$$\begin{array}{r} 4_7 \\ + _92 \\ \hline 77_ \end{array}$$

$$\begin{array}{r} 4_7 \\ + _42 \\ \hline 101_ \end{array}$$

$$\begin{array}{r} _2_ \\ + 5_5 \\ \hline 781 \end{array}$$

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$$\begin{array}{r} 308 \\ - 221 \\ \hline \end{array}$$

$$\begin{array}{r} 699 \\ - 600 \\ \hline \end{array}$$

$$\begin{array}{r} 680 \\ - 341 \\ \hline \end{array}$$

$$\begin{array}{r} 232 \\ - 186 \\ \hline \end{array}$$

$$\begin{array}{r} 820 \\ - 238 \\ \hline \end{array}$$

$$\begin{array}{r} 600 \\ - 184 \\ \hline \end{array}$$

$$\begin{array}{r} 904 \\ - 431 \\ \hline \end{array}$$

$$\begin{array}{r} 708 \\ - 207 \\ \hline \end{array}$$

$$\begin{array}{r} 420 \\ - 135 \\ \hline \end{array}$$

$$\begin{array}{r} 900 \\ - 616 \\ \hline \end{array}$$

$$\begin{array}{r} 800 \\ - 654 \\ \hline \end{array}$$

$$\begin{array}{r} 700 \\ - 557 \\ \hline \end{array}$$

$$\begin{array}{r} 400 \\ - 120 \\ \hline \end{array}$$

$$\begin{array}{r} 799 \\ - 777 \\ \hline \end{array}$$

$$\begin{array}{r} 600 \\ - 497 \\ \hline \end{array}$$

$$\begin{array}{r} 740 \\ - 545 \\ \hline \end{array}$$

$$\begin{array}{r} 806 \\ - 279 \\ \hline \end{array}$$

$$\begin{array}{r} 760 \\ - 145 \\ \hline \end{array}$$

$$\begin{array}{r} 267 \\ - 253 \\ \hline \end{array}$$

$$\begin{array}{r} 900 \\ - 462 \\ \hline \end{array}$$

$$\begin{array}{r} 800 \\ - 670 \\ \hline \end{array}$$

$$\begin{array}{r} 800 \\ - 111 \\ \hline \end{array}$$

$$\begin{array}{r} 907 \\ - 165 \\ \hline \end{array}$$

$$\begin{array}{r} 860 \\ - 746 \\ \hline \end{array}$$

$$\begin{array}{r} 376 \\ - 301 \\ \hline \end{array}$$



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Write the Correct Comparison Symbol ($>$, $<$ or $=$) in Each Box

1) 9.6 0.96

11) 9.02 9.02

2) 4.44 4.46

12) 3.74 0.374

3) 5.75 5.77

13) 0.78 0.76

4) 1.04 1.06

14) 7.73 7.71

5) 5.29 5.37

15) 2.19 0.219

6) 9.11 9.14

16) 3.67 3.68

7) 0.97 0.097

17) 7.42 7.46

8) 8.03 0.803

18) 1.78 0.178

9) 4.33 0.433

19) 6.83 6.81

10) 2 0.2

20) 0.23 0.2

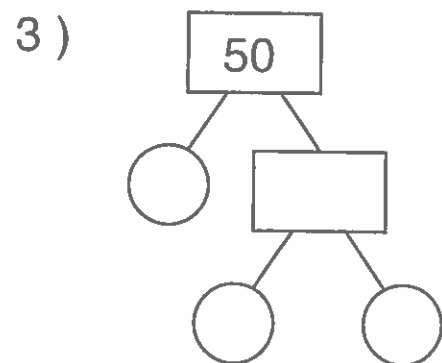
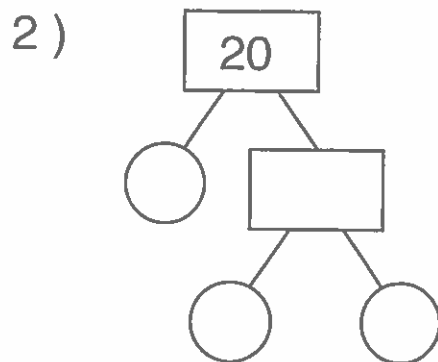
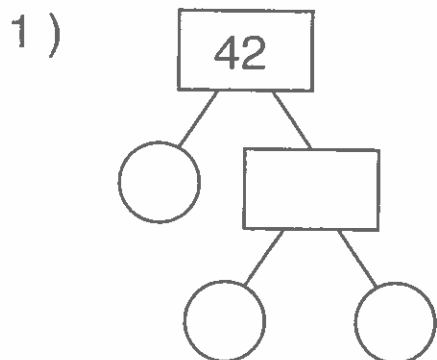
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Date : _____

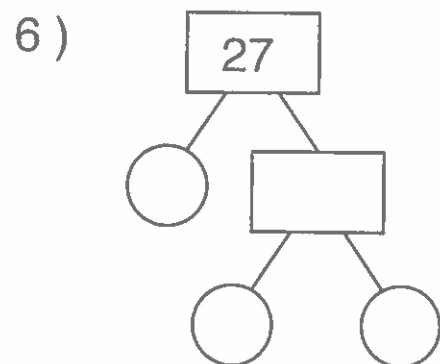
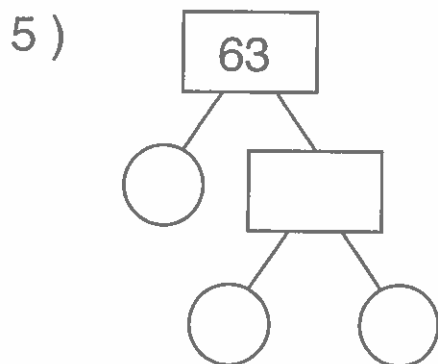
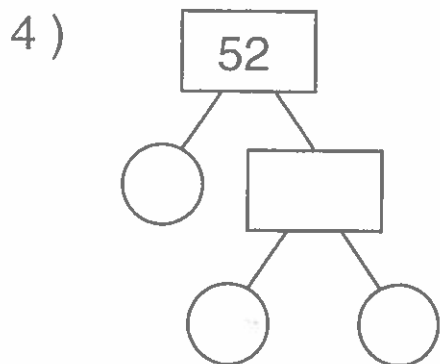
Find the Prime Factors of the Numbers



Prime Factors
_ x _ x _ = 42

Prime Factors
_ x _ x _ = 20

Prime Factors
_ x _ x _ = 50



Prime Factors
_ x _ x _ = 52

Prime Factors
_ x _ x _ = 63

Prime Factors
_ x _ x _ = 27

Least common multiple of 2 numbers (2-30)

Grade 6 Factoring Worksheet

Find the least common multiple (LCM).

1. 18 _____
9 _____

2. 30 _____
8 _____

3. 19 _____
3 _____

4. 4 _____
3 _____

5. 6 _____
28 _____

6. 20 _____
30 _____

7. 30 _____
13 _____

8. 6 _____
2 _____

9. 3 _____
12 _____

10. 9 _____
22 _____

11. 5 _____
15 _____

12. 15 _____
23 _____

13. 6 _____
9 _____

14. 26 _____
13 _____

15. 15 _____
8 _____

16. 3 _____
10 _____

Greatest common factor of 2 numbers (2-50)

Grade 6 Factoring Worksheet

Find the greatest common factor.

1. 15 _____
5 _____

2. 44 _____
22 _____

3. 35 _____
20 _____

4. 12 _____
27 _____

5. 12 _____
44 _____

6. 7 _____
35 _____

7. 39 _____
9 _____

8. 38 _____
14 _____

9. 22 _____
11 _____

10. 48 _____
32 _____

11. 35 _____
21 _____

12. 28 _____
14 _____

13. 30 _____
35 _____

14. 7 _____
14 _____

15. 14 _____
42 _____

16. 40 _____
18 _____

Name : _____

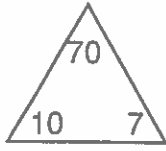
Score : _____

Teacher : _____

Date : _____

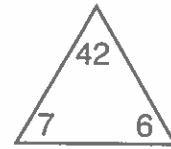
Complete Each Family of Facts

1)



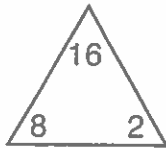
$$\begin{array}{l} \square \times \square = \square \\ \square \times \square = \square \\ \square \div \square = \square \\ \square \div \square = \square \end{array}$$

4)



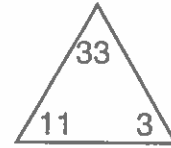
$$\begin{array}{l} \square \times \square = \square \\ \square \times \square = \square \\ \square \div \square = \square \\ \square \div \square = \square \end{array}$$

2)



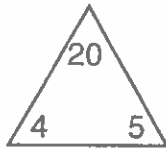
$$\begin{array}{l} \square \times \square = \square \\ \square \times \square = \square \\ \square \div \square = \square \\ \square \div \square = \square \end{array}$$

5)



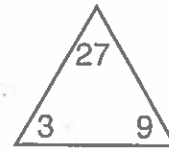
$$\begin{array}{l} \square \times \square = \square \\ \square \times \square = \square \\ \square \div \square = \square \\ \square \div \square = \square \end{array}$$

3)



$$\begin{array}{l} \square \times \square = \square \\ \square \times \square = \square \\ \square \div \square = \square \\ \square \div \square = \square \end{array}$$

6)



$$\begin{array}{l} \square \times \square = \square \\ \square \times \square = \square \\ \square \div \square = \square \\ \square \div \square = \square \end{array}$$

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Evaluate the Exponents

1) $(8)^2 =$ _____

11) $(9)^2 =$ _____

2) $(6)^2 =$ _____

12) $(2)^6 =$ _____

3) $(6)^4 =$ _____

13) $(2)^7 =$ _____

4) $(9)^2 =$ _____

14) $(3)^3 =$ _____

5) $(4)^2 =$ _____

15) $(3)^5 =$ _____

6) $(5)^4 =$ _____

16) $(7)^2 =$ _____

7) $(2)^4 =$ _____

17) $(3)^4 =$ _____

8) $(5)^2 =$ _____

18) $(7)^2 =$ _____

9) $(2)^4 =$ _____

19) $(8)^2 =$ _____

10) $(3)^3 =$ _____

20) $(10)^2 =$ _____



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Write the Correct Comparison Symbol ($>$, $<$ or $=$) in Each Box

1) $\frac{1}{4}$ $\frac{1}{2}$

11) $\frac{1}{3}$ $\frac{3}{4}$

2) $\frac{1}{3}$ $\frac{1}{2}$

12) $\frac{1}{4}$ $\frac{1}{2}$

3) $\frac{2}{3}$ $\frac{1}{2}$

13) $\frac{1}{2}$ $\frac{1}{3}$

4) $\frac{2}{3}$ $\frac{2}{3}$

14) $\frac{1}{4}$ $\frac{1}{4}$

5) $\frac{1}{2}$ $\frac{1}{4}$

15) $\frac{1}{2}$ $\frac{1}{2}$

6) $\frac{1}{4}$ $\frac{2}{3}$

16) $\frac{1}{2}$ $\frac{1}{2}$

7) $\frac{1}{3}$ $\frac{2}{4}$

17) $\frac{1}{2}$ $\frac{2}{4}$

8) $\frac{1}{3}$ $\frac{2}{3}$

18) $\frac{1}{2}$ $\frac{1}{2}$

9) $\frac{2}{4}$ $\frac{1}{3}$

19) $\frac{1}{2}$ $\frac{1}{3}$

10) $\frac{3}{4}$ $\frac{2}{4}$

20) $\frac{1}{2}$ $\frac{1}{2}$



Addition of Decimals

Grade 6 Decimals Worksheet

Find the sum.

1. $0.4 + 0.05 =$ _____

2. $5 + 0.02 =$ _____

3. $0.01 + 5 =$ _____

4. $0.2 + 6 =$ _____

5. $0.06 + 0.03 =$ _____

6. $0.3 + 0.05 =$ _____

7. $5 + 4 =$ _____

8. $0.06 + 0.001 =$ _____

9. $0.2 + 3 =$ _____

10. $0.006 + 0.4 =$ _____

11. $4 + 0.04 =$ _____

12. $0.01 + 4 =$ _____

13. $0.000 + 0 =$ _____

14. $0.3 + 0.001 =$ _____

15. $1 + 1 =$ _____

16. $0.03 + 0.2 =$ _____

17. $0.001 + 0.02 =$ _____

18. $0 + 0.04 =$ _____

19. $4 + 0.02 =$ _____

20. $0.02 + 0.2 =$ _____

Subtraction of Decimals

Grade 6 Decimals Worksheet

Find the difference.

1. $0.89 - 0.6 =$ _____

2. $0.82 - 0.03 =$ _____

3. $2.9 - 0.02 =$ _____

4. $1.6 - 0.8 =$ _____

5. $0.81 - 0.3 =$ _____

6. $0.13 - 0.06 =$ _____

7. $0.34 - 0.2 =$ _____

8. $10.0 - 0.4 =$ _____

9. $7.8 - 0.9 =$ _____

10. $0.25 - 0.03 =$ _____

11. $3.3 - 0.05 =$ _____

12. $4.3 - 0.03 =$ _____

13. $0.12 - 0.03 =$ _____

14. $6.3 - 0.03 =$ _____

15. $0.36 - 0.02 =$ _____

16. $4.4 - 0.07 =$ _____

17. $0.50 - 0.1 =$ _____

18. $0.17 - 0.06 =$ _____

19. $4.4 - 0.8 =$ _____

20. $1.2 - 0.2 =$ _____

Multiplying whole numbers by decimals

Grade 6 Decimals Worksheet

Find the product.

1. $3 \times 0.008 =$ _____

2. $11 \times 0.003 =$ _____

3. $12 \times 0.4 =$ _____

4. $4 \times 0.04 =$ _____

5. $12 \times 0.007 =$ _____

6. $7 \times 0.02 =$ _____

7. $10 \times 0.8 =$ _____

8. $12 \times 0.008 =$ _____

9. $12 \times 0.05 =$ _____

10. $11 \times 0.4 =$ _____

11. $6 \times 0.7 =$ _____

12. $5 \times 0.9 =$ _____

13. $10 \times 0.003 =$ _____

14. $1 \times 0.007 =$ _____

15. $11 \times 0.05 =$ _____

16. $8 \times 0.007 =$ _____

Multiplying whole numbers by decimals

Grade 6 Decimals Worksheet

Find the product.

1. $5 \times 0.4 =$ _____

2. $10 \times 0.003 =$ _____

3. $4 \times 0.8 =$ _____

4. $9 \times 0.002 =$ _____

5. $12 \times 0.9 =$ _____

6. $10 \times 0.06 =$ _____

7. $11 \times 0.06 =$ _____

8. $2 \times 0.08 =$ _____

9. $11 \times 0.002 =$ _____

10. $10 \times 0.02 =$ _____

11. $11 \times 0.01 =$ _____

12. $3 \times 0.02 =$ _____

13. $2 \times 0.002 =$ _____

14. $7 \times 0.08 =$ _____

15. $8 \times 0.008 =$ _____

16. $12 \times 0.008 =$ _____

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Solve each division problem.

$$5 \overline{) 1.80}$$

$$2 \overline{) 9.44}$$

$$7 \overline{) 4.97}$$

$$6 \overline{) 6.30}$$

$$4 \overline{) 5.72}$$

$$7 \overline{) 7.63}$$

$$9 \overline{) 7.83}$$

$$5 \overline{) 7.95}$$

$$2 \overline{) 9.76}$$

$$3 \overline{) 3.21}$$

$$8 \overline{) 5.04}$$

$$3 \overline{) 3.03}$$

$$8 \overline{) 7.84}$$

$$9 \overline{) 6.03}$$

$$9 \overline{) 7.02}$$

$$6 \overline{) 5.16}$$

$$6 \overline{) 9.72}$$

$$8 \overline{) 2.64}$$

$$4 \overline{) 8.20}$$

$$5 \overline{) 7.15}$$

$$2 \overline{) 5.88}$$

Dividing Decimals by Whole Numbers

Grade 6 Decimals Worksheet

Find the quotient.

1. $0.61 \div 8 =$ _____

2. $4.6 \div 2 =$ _____

3. $4.2 \div 1 =$ _____

4. $0.98 \div 1 =$ _____

5. $0.35 \div 9 =$ _____

6. $0.63 \div 4 =$ _____

7. $0.74 \div 5 =$ _____

8. $5.2 \div 4 =$ _____

9. $0.85 \div 2 =$ _____

10. $0.98 \div 9 =$ _____

11. $0.82 \div 5 =$ _____

12. $0.63 \div 6 =$ _____

13. $8.7 \div 7 =$ _____

14. $0.53 \div 2 =$ _____

15. $0.16 \div 6 =$ _____

16. $3.3 \div 4 =$ _____

17. $7.9 \div 9 =$ _____

18. $8.6 \div 6 =$ _____

19. $0.90 \div 2 =$ _____

20. $0.85 \div 6 =$ _____

Simplifying proper fractions

Grade 6 Fraction Worksheet

Simplify the fractions.

1. $\frac{4}{8} =$ _____

2. $\frac{14}{50} =$ _____

3. $\frac{46}{60} =$ _____

4. $\frac{81}{126} =$ _____

5. $\frac{54}{72} =$ _____

6. $\frac{8}{128} =$ _____

7. $\frac{35}{60} =$ _____

8. $\frac{72}{108} =$ _____

9. $\frac{21}{63} =$ _____

10. $\frac{10}{30} =$ _____

11. $\frac{6}{45} =$ _____

12. $\frac{5}{10} =$ _____

13. $\frac{9}{24} =$ _____

14. $\frac{50}{125} =$ _____

Improper fractions to mixed numbers

Grade 6 Fraction Worksheet

Convert the fractions into mixed numbers.

1. $\frac{12}{7} =$ _____

2. $\frac{93}{10} =$ _____

3. $\frac{19}{11} =$ _____

4. $\frac{21}{9} =$ _____

5. $\frac{46}{5} =$ _____

6. $\frac{9}{6} =$ _____

7. $\frac{33}{12} =$ _____

8. $\frac{25}{4} =$ _____

9. $\frac{27}{6} =$ _____

10. $\frac{23}{7} =$ _____

11. $\frac{37}{8} =$ _____

12. $\frac{34}{7} =$ _____

13. $\frac{26}{4} =$ _____

14. $\frac{22}{3} =$ _____

15. $\frac{43}{9} =$ _____

16. $\frac{107}{10} =$ _____

17. $\frac{107}{11} =$ _____

18. $\frac{66}{12} =$ _____

Ratio word problems

Grade 6 Ratios Worksheet

It's inventory time at the fruit and vegetable store. Help by answering the questions, using ratios.

1. The ratio of tomatoes to red apples is 2:5. If there are 20 tomatoes, how many red apples are there?
2. The ratio of berries to oranges is 10:1. If there are 25 oranges, how many berries are there?
3. The ratio of potatoes to turnips is 1:1. If there are 473 potatoes, how many turnips are there?
4. The ratio of pears to green apples is 1:3. If there are 150 green apples, how many pears are there?
5. The ratio of bananas to melons is 30:1. If there are 300 bananas, how many melons are there?
6. The ratio of blueberries to strawberries is 1:7. If there are 210 strawberries, how many blueberries are there.

Simple proportions

Grade 6 Ratios Worksheet

Use cross multiplication to solve the following proportions.

1. $\frac{6}{6} = \frac{15}{18}$

2. $\frac{3}{3} = \frac{16}{24}$

3. $\frac{3}{5} = \frac{9}{15}$

4. $\frac{6}{6} = \frac{2}{12}$

5. $\frac{5}{5} = \frac{16}{20}$

6. $\frac{1}{2} = \frac{3}{8}$

7. $\frac{8}{8} = \frac{10}{16}$

8. $\frac{2}{2} = \frac{4}{8}$

9. $\frac{4}{4} = \frac{9}{12}$

10. $\frac{1}{3} = \frac{3}{9}$

11. $\frac{2}{2} = \frac{4}{8}$

12. $\frac{2}{2} = \frac{10}{20}$

Equivalent fractions (3 fractions)

Grade 6 Fraction Worksheet

Find the value of the missing numbers.

1. $\frac{2}{4} = \frac{\quad}{28} = \frac{\quad}{16}$

2. $\frac{4}{10} = \frac{20}{\quad} = \frac{\quad}{100}$

3. $\frac{3}{5} = \frac{24}{\quad} = \frac{18}{\quad}$

4. $\frac{15}{24} = \frac{75}{\quad} = \frac{\quad}{48}$

5. $\frac{17}{20} = \frac{170}{\quad} = \frac{\quad}{100}$

6. $\frac{1}{7} = \frac{\quad}{14} = \frac{\quad}{28}$

7. $\frac{7}{12} = \frac{70}{\quad} = \frac{42}{\quad}$

8. $\frac{3}{9} = \frac{15}{\quad} = \frac{24}{\quad}$

9. $\frac{1}{15} = \frac{3}{\quad} = \frac{4}{\quad}$

10. $\frac{2}{8} = \frac{\quad}{16} = \frac{12}{\quad}$

11. $\frac{18}{25} = \frac{108}{\quad} = \frac{\quad}{100}$

12. $\frac{5}{15} = \frac{\quad}{105} = \frac{25}{\quad}$

13. $\frac{4}{5} = \frac{32}{\quad} = \frac{24}{\quad}$

14. $\frac{4}{24} = \frac{12}{\quad} = \frac{\quad}{240}$

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Adding Fractions

1) $\frac{1}{2} + \frac{3}{5} =$

2) $\frac{1}{2} + \frac{9}{10} =$

3) $\frac{2}{3} + \frac{9}{10} =$

4) $\frac{1}{2} + \frac{1}{4} =$

5) $\frac{4}{5} + \frac{9}{10} =$

6) $\frac{1}{2} + \frac{3}{10} =$

7) $\frac{1}{2} + \frac{2}{5} =$

8) $\frac{1}{4} + \frac{8}{10} =$

9) $\frac{1}{3} + \frac{1}{2} =$

10) $\frac{1}{4} + \frac{7}{10} =$

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Multiplying Fractions with Cross Canceling

1) $\frac{6}{10} \times \frac{1}{2} =$

2) $\frac{3}{10} \times \frac{1}{4} =$

3) $\frac{1}{2} \times \frac{3}{4} =$

4) $\frac{1}{3} \times \frac{5}{10} =$

5) $\frac{1}{3} \times \frac{1}{4} =$

6) $\frac{1}{2} \times \frac{5}{10} =$

7) $\frac{1}{2} \times \frac{6}{10} =$

8) $\frac{1}{4} \times \frac{5}{10} =$

9) $\frac{1}{4} \times \frac{5}{10} =$

10) $\frac{1}{2} \times \frac{4}{5} =$

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Dividing Fractions

1) $\frac{2}{10} \div \frac{1}{4} =$

2) $\frac{3}{5} \div \frac{3}{4} =$

3) $\frac{4}{5} \div \frac{1}{2} =$

4) $\frac{1}{2} \div \frac{4}{10} =$

5) $\frac{1}{4} \div \frac{3}{5} =$

6) $\frac{1}{2} \div \frac{1}{3} =$

7) $\frac{4}{5} \div \frac{3}{4} =$

8) $\frac{3}{5} \div \frac{2}{10} =$

9) $\frac{3}{5} \div \frac{2}{10} =$

10) $\frac{1}{3} \div \frac{3}{4} =$

Dividing fractions

Grade 6 Fraction Worksheet

Find the quotient.

1. $\frac{9}{10} \div \frac{1}{3} =$ _____

2. $\frac{1}{6} \div \frac{2}{10} =$ _____

3. $\frac{1}{7} \div \frac{2}{10} =$ _____

4. $\frac{1}{4} \div \frac{5}{6} =$ _____

5. $\frac{6}{9} \div \frac{8}{9} =$ _____

6. $\frac{5}{6} \div \frac{2}{3} =$ _____

7. $\frac{2}{3} \div \frac{9}{12} =$ _____

8. $\frac{9}{11} \div \frac{1}{6} =$ _____

9. $\frac{2}{5} \div \frac{3}{7} =$ _____

10. $\frac{2}{3} \div \frac{1}{3} =$ _____

Fractions to percents

Grade 6 Percents Worksheet

Convert.

1. $\frac{7}{10} =$ _____

2. $\frac{23}{100} =$ _____

3. $\frac{9}{10} =$ _____

4. $\frac{54}{100} =$ _____

5. $\frac{4}{10} =$ _____

6. $\frac{42}{100} =$ _____

7. $\frac{2}{10} =$ _____

8. $\frac{79}{100} =$ _____

9. $\frac{65}{100} =$ _____

10. $\frac{3}{10} =$ _____

11. $\frac{62}{100} =$ _____

12. $\frac{12}{100} =$ _____

13. $\frac{72}{100} =$ _____

14. $\frac{1}{10} =$ _____

15. $\frac{7}{100} =$ _____

16. $\frac{5}{10} =$ _____

Name : _____ Score : _____

Teacher : _____ Date : _____

Equivalent Ratios

1) $1 : 2 = \underline{\quad} : 4 = 3 : \underline{\quad} = \underline{\quad} : 8 = \underline{\quad} : 10 = \underline{\quad} : 12$

2) $3 : 4 = 6 : \underline{\quad} = 9 : \underline{\quad} = 12 : \underline{\quad} = 15 : \underline{\quad} = 18 : \underline{\quad}$

3) $9 : 10 = \underline{\quad} : 20 = 27 : \underline{\quad} = \underline{\quad} : 40 = 45 : \underline{\quad} = 54 : \underline{\quad}$

4) $1 : 2 = 2 : \underline{\quad} = 3 : \underline{\quad} = 4 : \underline{\quad} = \underline{\quad} : 10 = 6 : \underline{\quad}$

5) $2 : 3 = 4 : \underline{\quad} = \underline{\quad} : 9 = \underline{\quad} : 12 = \underline{\quad} : 15 = 12 : \underline{\quad}$

6) $1 : 4 = \underline{\quad} : 8 = 3 : \underline{\quad} = \underline{\quad} : 16 = 5 : \underline{\quad} = 6 : \underline{\quad}$

7) $1 : 3 = \underline{\quad} : 6 = 3 : \underline{\quad} = \underline{\quad} : 12 = \underline{\quad} : 15 = \underline{\quad} : 18$

8) $1 : 7 = \underline{\quad} : 14 = 3 : \underline{\quad} = \underline{\quad} : 28 = \underline{\quad} : 35 = 6 : \underline{\quad}$

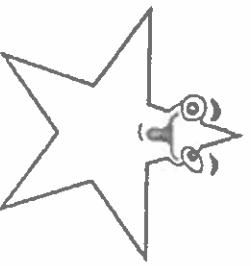
9) $2 : 5 = 4 : \underline{\quad} = 6 : \underline{\quad} = 8 : \underline{\quad} = \underline{\quad} : 25 = \underline{\quad} : 30$

10) $2 : 3 = \underline{\quad} : 6 = \underline{\quad} : 9 = \underline{\quad} : 12 = \underline{\quad} : 15 = \underline{\quad} : 18$



Place Value Chart

2	Hundred Billions
1	Ten Billions
0	Billions
,	
9	Hundred Millions
8	Ten Millions
7	Millions
,	
6	Hundred Thousands
5	Ten Thousands
4	Thousands
,	
3	Hundreds
2	Tens
1	Ones
.	
2	Tenths
3	Hundredths
4	Thousandths
5	Ten Thousandths
6	Hundred Thousandths



This Chart shows the place value of the number 210,987,654,321.23456
This is how you say it.

Two hundred ten billion, nine hundred eighty seven million, six hundred fifty four thousand, three hundred twenty one, and twenty three thousand four hundred fifty six hundred thousandths.



Name : _____ Score : _____

Teacher : _____ Date : _____

Match the Number with the Correct Name.

1) _____ 9.59

A Three and Eighty Three Hundredths

2) _____ 1.20

B Nine and Fifty Nine Hundredths

3) _____ 7.28

C One and Sixty One Hundredths

4) _____ 8.92

D Nine and Forty Two Hundredths

5) _____ 1.61

E One and Two Tenths

6) _____ 1.41

F One and Forty One Hundredths

7) _____ 9.42

G One and Thirty Nine Hundredths

8) _____ 8.93

H Eight and Ninety Three Hundredths

9) _____ 3.83

I Eight and Ninety Two Hundredths

10) _____ 1.39

J Seven and Twenty Eight Hundredths



Name : _____

Score : _____

Teacher : _____

Date : _____

Multiplication Times Table (1 - 12)

X	1	2	3	4	5	6	7	8	9	10	11	12
1	1	2	3	4	5	6	7	8	9	10	11	12
2	2	4	6	8	10	12	14	16	18	20	22	24
3	3	6	9	12	15	18	21	24	27	30	33	36
4	4	8	12	16	20	24	28	32	36	40	44	48
5	5	10	15	20	25	30	35	40	45	50	55	60
6	6	12	18	24	30	36	42	48	54	60	66	72
7	7	14	21	28	35	42	49	56	63	70	77	84
8	8	16	24	32	40	48	56	64	72	80	88	96
9	9	18	27	36	45	54	63	72	81	90	99	108
10	10	20	30	40	50	60	70	80	90	100	110	120
11	11	22	33	44	55	66	77	88	99	110	121	132
12	12	24	36	48	60	72	84	96	108	120	132	144



Name : _____

Score : _____

Teacher : _____

Date : _____

$$\begin{array}{r} 34 \\ \times 2 \\ \hline \end{array}$$

$$\begin{array}{r} 55 \\ \times 11 \\ \hline \end{array}$$

$$\begin{array}{r} 84 \\ \times 6 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \times 45 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ \times 75 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ \times 34 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \\ \times 22 \\ \hline \end{array}$$

$$\begin{array}{r} 34 \\ \times 57 \\ \hline \end{array}$$

$$\begin{array}{r} 55 \\ \times 22 \\ \hline \end{array}$$

$$\begin{array}{r} 45 \\ \times 7 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 85 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \\ \times 83 \\ \hline \end{array}$$

$$\begin{array}{r} 95 \\ \times 5 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \\ \times 8 \\ \hline \end{array}$$

$$\begin{array}{r} 65 \\ \times 75 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ \times 3 \\ \hline \end{array}$$

$$\begin{array}{r} 85 \\ \times 83 \\ \hline \end{array}$$

$$\begin{array}{r} 95 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} 75 \\ \times 57 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 54 \\ \times 9 \\ \hline \end{array}$$

$$\begin{array}{r} 35 \\ \times 4 \\ \hline \end{array}$$

$$\begin{array}{r} 64 \\ \times 3 \\ \hline \end{array}$$

Name : _____

Score : _____

Teacher : _____

Date : _____

Arrange and Write the Integers in Increasing Order

1) 1 -7 -1 8

2) -3 -5 1 -2

3) 9 -9 -8 5

4) -6 9 -5 5

5) -3 -6 -8 6

6) 7 -2 1 8

7) -2 3 -3 -4

8) -7 4 -2 5

9) -6 -1 -2 0

10) -4 -8 -1 4

11) -4 -2 4 0

12) 3 -7 -6 -1

13) 6 9 5 1

14) 5 2 6 -5

15) -9 2 7 -3

16) 0 1 -9 5

17) 0 -7 3 -4

18) 9 -4 7 0

19) -8 7 6 -9

20) 5 -1 2 -4



Name : _____

Score : _____

Teacher : _____

Date : _____

1) $2 - 5 =$

2) $4 + -2 =$

3) $0 - 1 =$

4) $-9 \times 7 =$

5) $-7 + 4 =$

6) $2 - -6 =$

7) $8 - -5 =$

8) $-1 \times -6 =$

9) $8 \times 1 =$

10) $9 - -2 =$

11) $1 + -8 =$

12) $-3 - -4 =$

13) $4 \times -6 =$

14) $0 + 8 =$

15) $9 \times 0 =$

16) $1 \times 4 =$

17) $3 \times 6 =$

18) $9 + -1 =$

19) $-7 + 5 =$

20) $7 \times -3 =$

21) $-6 - 1 =$

22) $5 \times 2 =$

23) $-9 - -6 =$

24) $7 - 3 =$

25) $-1 - 4 =$

26) $0 + 2 =$

27) $3 + 0 =$

28) $7 + 1 =$

29) $-6 + 5 =$

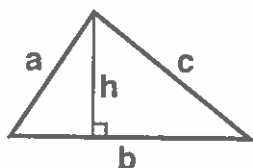
30) $0 \times 8 =$



Area and Perimeter Formulas

Triangles - Common

A polygon with three angles and three sides.

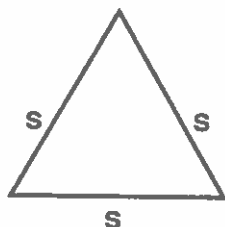


$$\text{Area} = \frac{1}{2} \text{ base} \times \text{height} = \frac{1}{2} bh$$

$$\text{Perimeter} = a + b + c$$

Equilateral Triangles

A Triangle with all three sides of equal length.

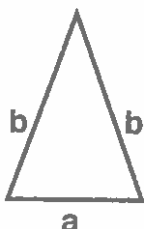


$$\text{Area} = \frac{\sqrt{3}}{4} \times (\text{side})^2 = \frac{\sqrt{3}}{4} s^2$$

$$\text{Perimeter} = 3 \times \text{sides} = 3s$$

Isosceles Triangles

A Triangle with two sides of equal length.

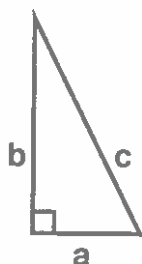


$$\text{Area} = \frac{a}{4} \sqrt{4b^2 - a^2}$$

$$\text{Perimeter} = a + 2b$$

Right Triangles

A Triangle with one right angle.

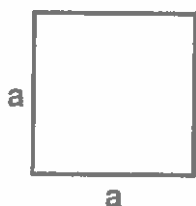


$$\text{Area} = \frac{ba}{2}$$

$$\text{Perimeter} = a + b + c$$

Square

A Square is a quadrilateral with four equal sides and angles at 90° .

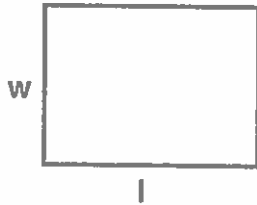


$$\text{Area} = a^2$$

$$\text{Perimeter} = 4a$$



Area and Perimeter Formulas

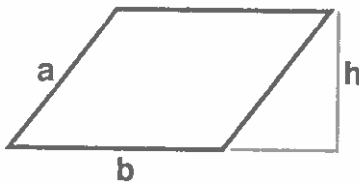


Rectangle

A Rectangle is a quadrilateral with four equal angles at 90° .

$$\text{Area} = lw$$

$$\text{Perimeter} = 2(w + l)$$

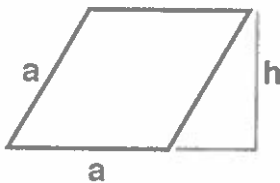


Parallelogram

A Parallelogram is a quadrilateral with opposite sides parallel.

$$\text{Area} = bh$$

$$\text{Perimeter} = 2(a + b)$$

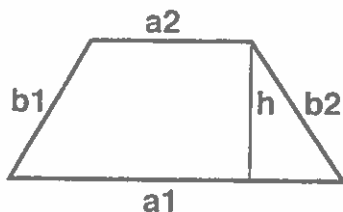


Rhombus

A Rhombus is a Parallelogram with all sides equal.

$$\text{Area} = ah$$

$$\text{Perimeter} = 4a$$

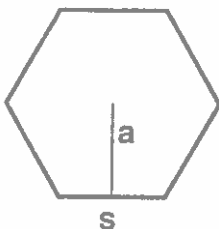


Trapezoid

A Trapezoid is a Quadrilateral with at least one pair of parallel sides.

$$\text{Area} = \frac{a1 + a2}{2} h$$

$$\text{Perimeter} = a1 + a2 + b1 + b2$$



Regular n-gon

A Regular Polygon is a polygon for which n sides and angles are equal.

$$\text{Area} = \frac{1}{2} (a n s)$$

$$\text{Perimeter} = n s$$



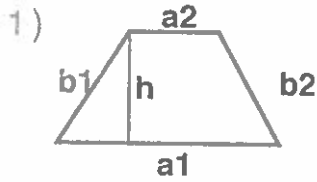
Name : _____

Score : _____

Teacher : _____

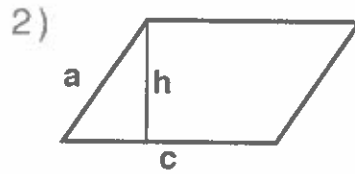
Date : _____

Identify and Calculate the Area and Perimeter for each Quadrilateral.



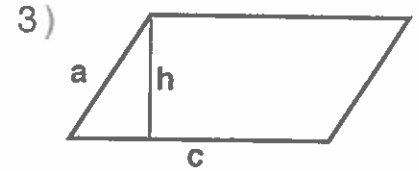
$a1 = 8.3 \text{ ft}$ $a2 = 3.3 \text{ ft}$
 $b1 = 4.99 \text{ ft}$ $b2 = 4.79 \text{ ft}$
 $h = 4.2 \text{ ft}$

Area: _____
 Perimeter: _____
 Type: _____



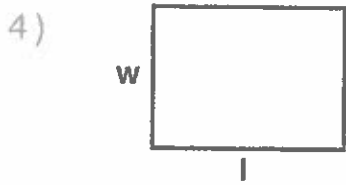
$a = 4.94 \text{ mm}$
 $c = 8 \text{ mm}$ $h = 4.6 \text{ mm}$

Area: _____
 Perimeter: _____
 Type: _____



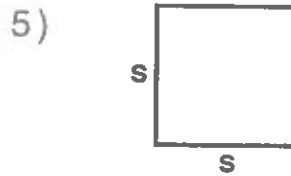
$a = 4.92 \text{ cm}$
 $c = 9.8 \text{ cm}$ $h = 4.7 \text{ cm}$

Area: _____
 Perimeter: _____
 Type: _____



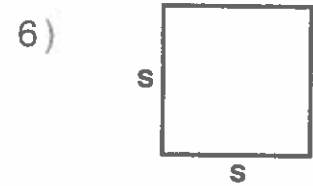
$l = 7.2 \text{ yds}$ $w = 5.3 \text{ yds}$

Area: _____
 Perimeter: _____
 Type: _____



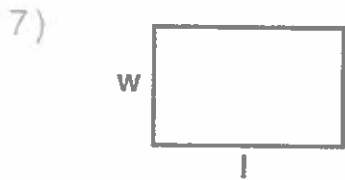
$s = 5.2 \text{ ft}$

Area: _____
 Perimeter: _____
 Type: _____



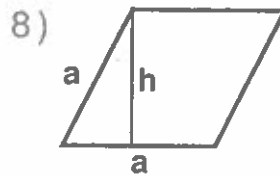
$s = 5.6 \text{ inches}$

Area: _____
 Perimeter: _____
 Type: _____



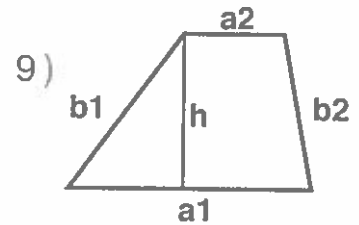
$l = 7.1 \text{ inches}$ $w = 4.4 \text{ inches}$

Area: _____
 Perimeter: _____
 Type: _____



$a = 5.7 \text{ cm}$ $h = 5.08 \text{ cm}$

Area: _____
 Perimeter: _____
 Type: _____



$a1 = 9.2 \text{ mm}$ $a2 = 3.8 \text{ mm}$
 $b1 = 7.23 \text{ mm}$ $b2 = 5.9 \text{ mm}$
 $h = 5.8 \text{ mm}$

Area: _____
 Perimeter: _____
 Type: _____

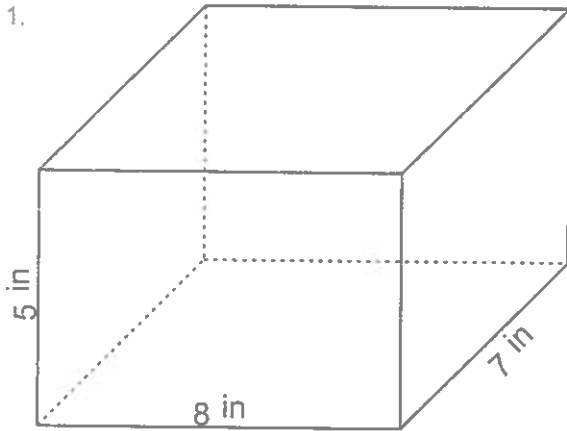


Rectangular prism - volume & surface area

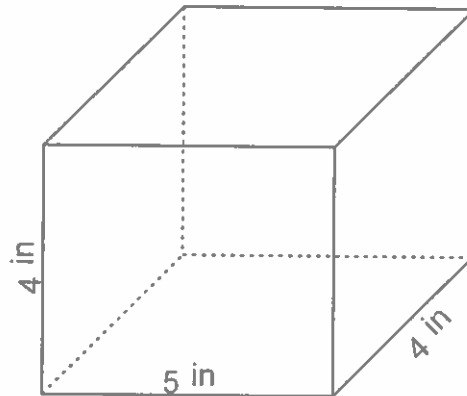
Grade 6 Geometry Worksheet

Find the volume and surface area.

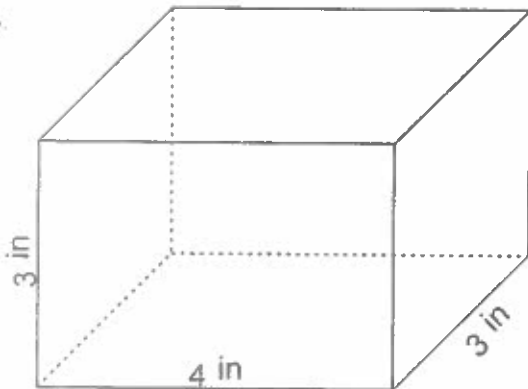
1.



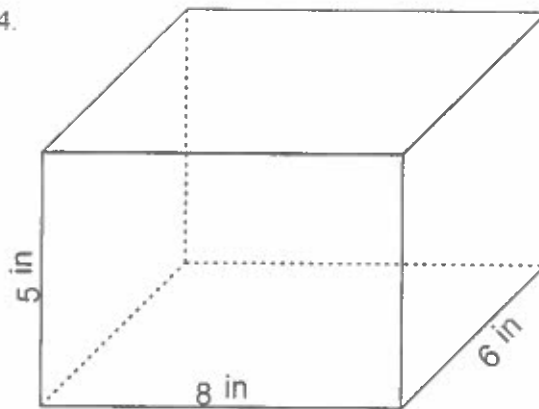
2.



3.



4.



Name : _____

Score : _____

Teacher : _____

Date : _____

Gingerbread Man

For each Shape plot the ordered pairs on the axis and connect them in order.
Do not connect the Shapes to each other.

Shape 1

(0,9) , (1,8) , (1.5,7) , (2,5) , (1.5,3) , (0.5,1.5) , (3,1) , (4,1) , (5,1.5) , (6,2) , (7,1.5)
(7.5,1) , (8,0) , (7,-1.5) , (5,-2.5) , (4,-2.5) , (2.5,-3) , (2,-4) , (2,-6.5) , (2,-7.5) , (2,-8)
(2.5,-9.5) , (3.5,-11) , (4,-12) , (5,-13.5) , (5,-14.5) , (4.5,-15.5) , (2,-16) , (0.5,-14.5) , (-0.5,-13.5)
(-1.5,-12) , (-2.5,-9.5) , (-4,-12) , (-4.5,-13) , (-5,-14) , (-6,-15) , (-8,-16) , (-9.5,-15.5) , (-10.5,-14)
(-10,-13) , (-9,-11.5) , (-8.5,-11) , (-7.5,-9) , (-7,-8) , (-7,-7) , (-7,-6) , (-6.5,-4) , (-7,-3)
(-9.5,-2.5) , (-10.5,-2) , (-11.5,-1.5) , (-13,0) , (-12.5,1) , (-12,2) , (-10,2) , (-9,1.5)
(-8,1.5) , (-7,1.5) , (-6,2) , (-7,4) , (-7,6) , (-6,8) , (-5,9) , (-2.5,9.5) , (0,9)

Shape 2

(-4.5,1.5) , (-3,1) , (-3,0) , (-4.5,-0.5) , (-4.5,1.5)

Shape 3

(-3,1) , (-2,1) , (-2,0) , (-3,0)

Shape 4

(-2,1) , (-1,1.5) , (-0.5,0) , (-1,-0.5) , (-2,0)

Shape 5

(-4,4) , (-4,3.5) , (-3,3) , (-2,3) , (-1.5,3.5) , (-1,4) , (-0.5,4) , (-1,3)
(-2,2.5) , (-3,2.5) , (-4,3) , (-4.5,3.5) , (-4.5,4) , (-4,4)

Shape 6

(-7,-7) , (-6,-6.5) , (-5,-7) , (-4,-6.5) , (-3,-7) , (-2,-6.5) , (-1,-7) , (0,-6.5) , (1,-7) , (2,-6.5)

Shape 7

(-7,-8) , (-6,-7.5) , (-5,-8) , (-4,-7.5) , (-3,-8) , (-2,-7.5) , (-1,-8) , (0,-7.5) , (1,-8) , (2,-7.5)

Shape 8

(-2.5,-1.5) , (-3,-2) , (-2.5,-2.5) , (-2,-2) , (-2.5,-1.5)

Shape 9

(-2.5,-4.5) , (-3,-5) , (-2.5,-5.5) , (-2,-5) , (-2.5,-4.5)

Shape 10

(-8.5,-11) , (-6.5,-12.5) , (-4.5,-13)

Shape 11

(-9,-11.5) , (-6.5,-13.5) , (-5,-14)

Shape 12

(-0.5,-13.5) , (2,-12.5) , (3.5,-11)



Name : _____

Score : _____

Teacher : _____

Date : _____

Gingerbread Man

For each Shape plot the ordered pairs on the axis and connect them in order.
Do not connect the Shapes to each other.

Shape 13

$(0.5, -14.5)$, $(2, -13.5)$, $(4, -12)$

Shape 14

$(-10.5, -2)$, $(-9.5, 0)$, $(-9, 1.5)$

Shape 15

$(-9.5, -2.5)$, $(-8.5, -0.5)$, $(-8, 1.5)$

Shape 16

$(3, 1)$, $(3.5, -0.5)$, $(4, -2.5)$

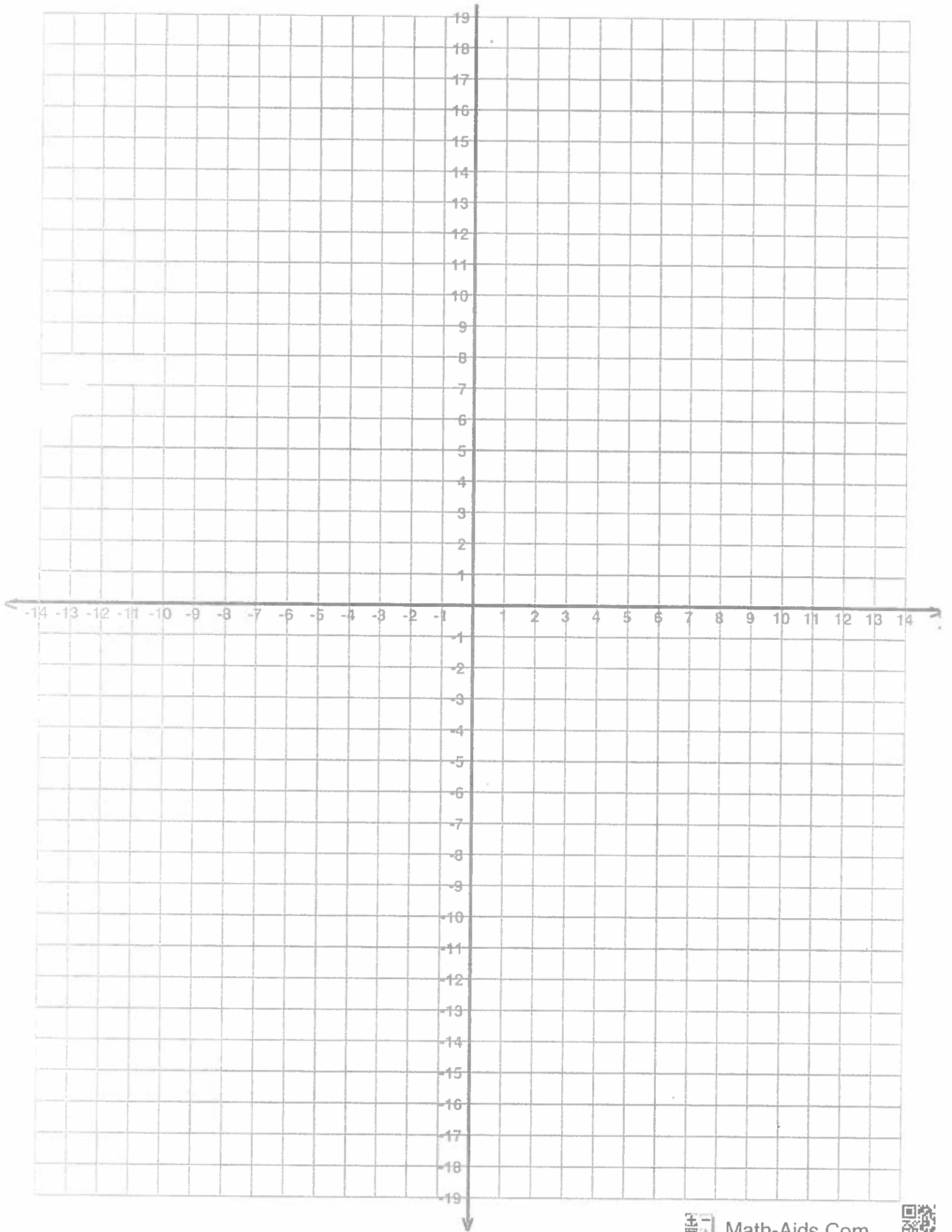
Shape 17

$(4, 1)$, $(4.5, -0.5)$, $(5, -2.5)$

Draw a .5 radius circle around these points.

$(-4.5, 5.5)$ and $(-0.5, 5.5)$





Name : _____

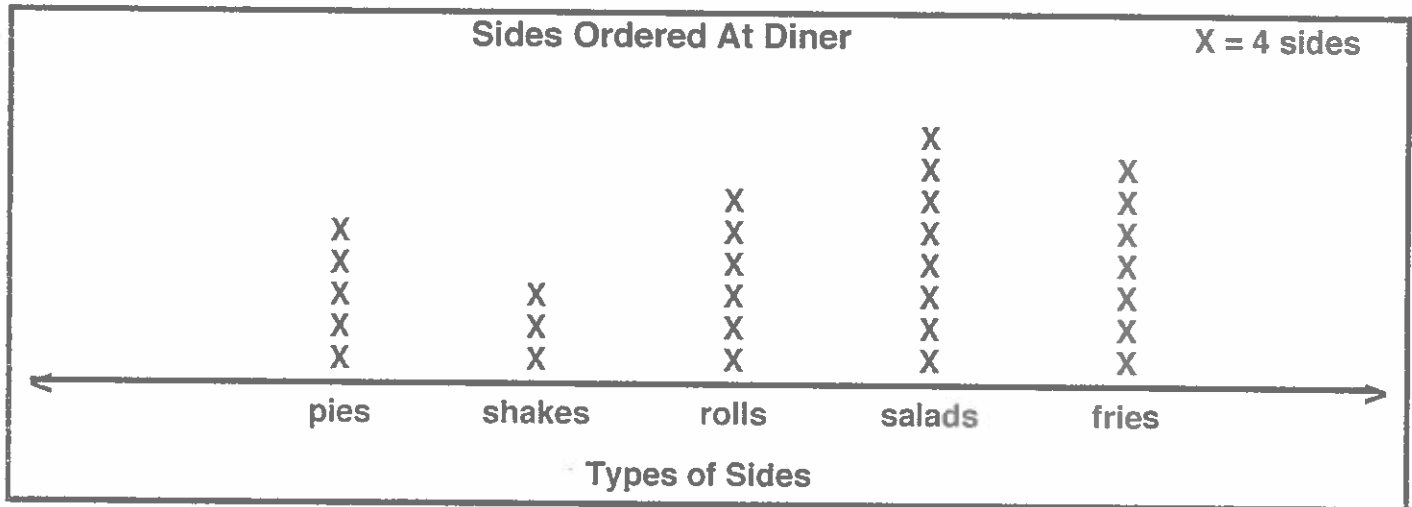
Score : _____

Teacher : _____

Date : _____

Interpreting Line Plots

One diner tabulated the types of sides sold in a day. Answer the questions.



- 1) Were more rolls or shakes ordered that day? _____
- 2) How many pies and shakes were ordered at the diner? _____
- 3) Which type of side (if any) was ordered more than 24 times? _____
- 4) Which type of side was ordered the most that day? _____
- 5) How many salads were ordered that day? _____
- 6) What is the absolute difference in the number of pies and shakes ordered? _____
- 7) In total, how many sides were ordered that day at the diner? _____
- 8) How many fries did the diner sell? _____
- 9) Which type of side was ordered the least? _____
- 10) How many pies were ordered? _____

Name : _____

Score : _____

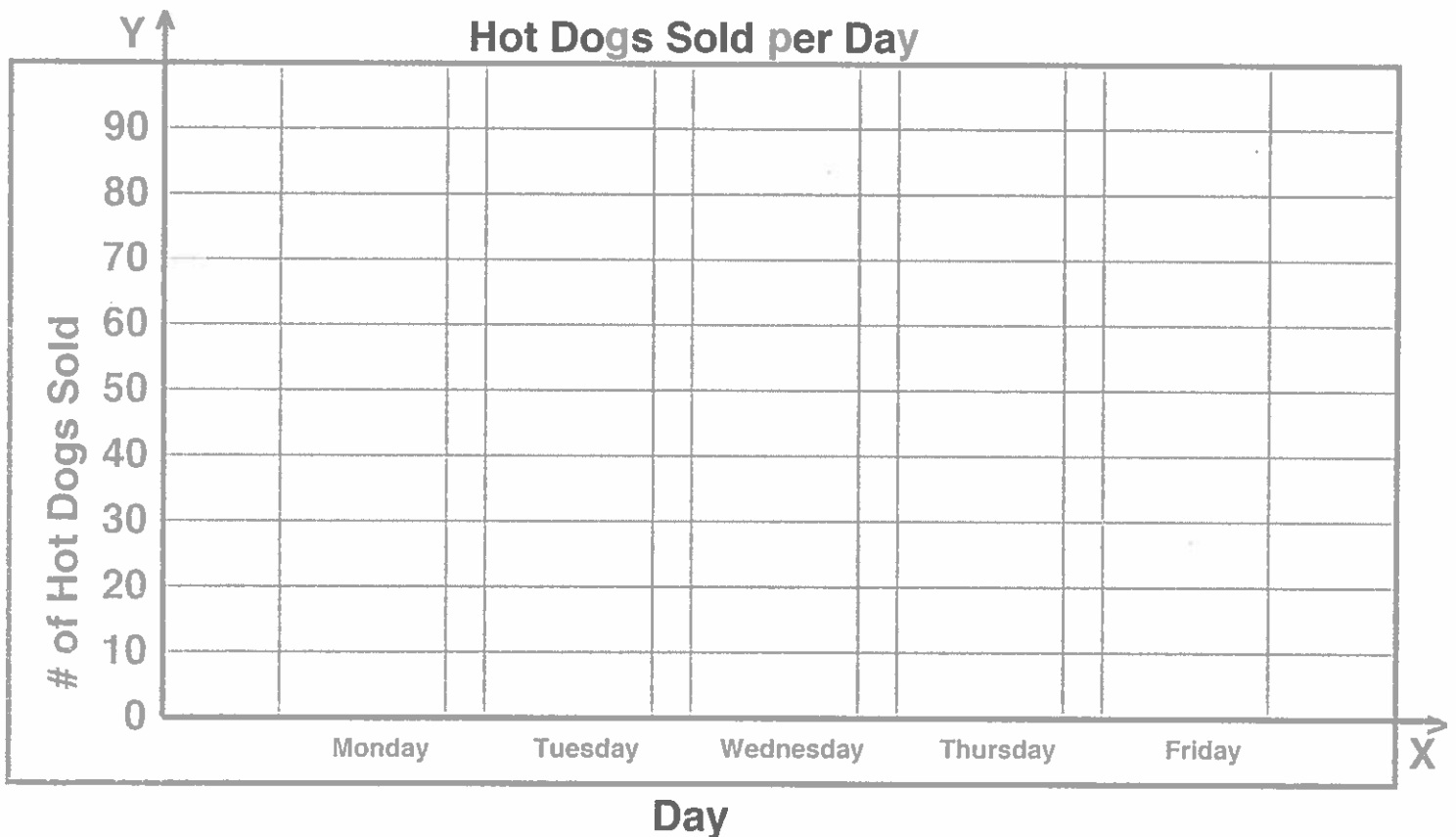
Teacher : _____

Date : _____

Drawing Bar Graphs

Graph the given information as a bar graph.

Day	# of Hot Dogs Sold
Monday	40
Tuesday	30
Wednesday	20
Thursday	10
Friday	70

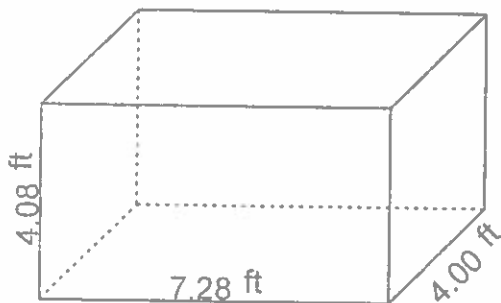


Rectangular prism - volume & surface area

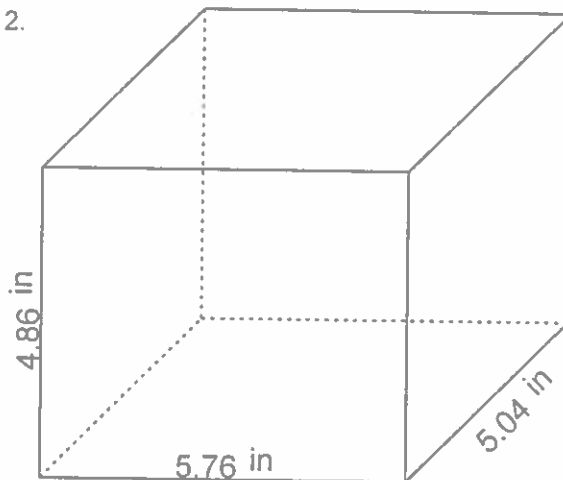
Grade 6 Geometry Worksheet

Find the volume and surface area.

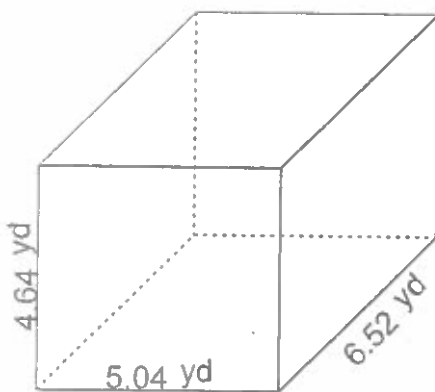
1.



2.



3.



4.

