Place Value & Rounding

Place Value Chart:

___	___	___
hundreds	tens	ones

ex: round 634 to the nearest ten

1. Keep all digits to the left of the place you are rounding the same.

The 3 is in the tens place.

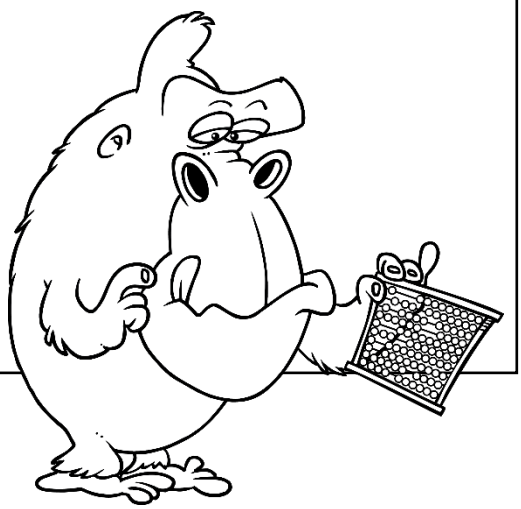
Keep the 6 the same.

2. If the digit to the right of the rounding digit is less than 5, keep the rounding digit the same. If it's 5 or greater, increase the rounding digit by 1.

After the 3 is a 4, which is less than 5, so the 3 stays the same and the 4 turns to a zero.

3. Change all places to the right of the digit you are rounding to 0.

→ 630



Identify the place value of the underlined digit.

1. 9<u>2</u>3	2. 25<u>4</u>	3. <u>5</u>13
4. <u>2</u>75	5. 30<u>9</u>	6. 3<u>7</u>1

Round each number to the nearest ten.

7. 48	8. 62	9. 75
10. 239	11. 424	12. 509

Round each number to the nearest hundred.

13. 183	14. 219	15. 583
16. 838	17. 862	18. 355

Adding Whole Numbers

1. Write the problem vertically, lining up the numbers to the right.

ex: 734 + 78

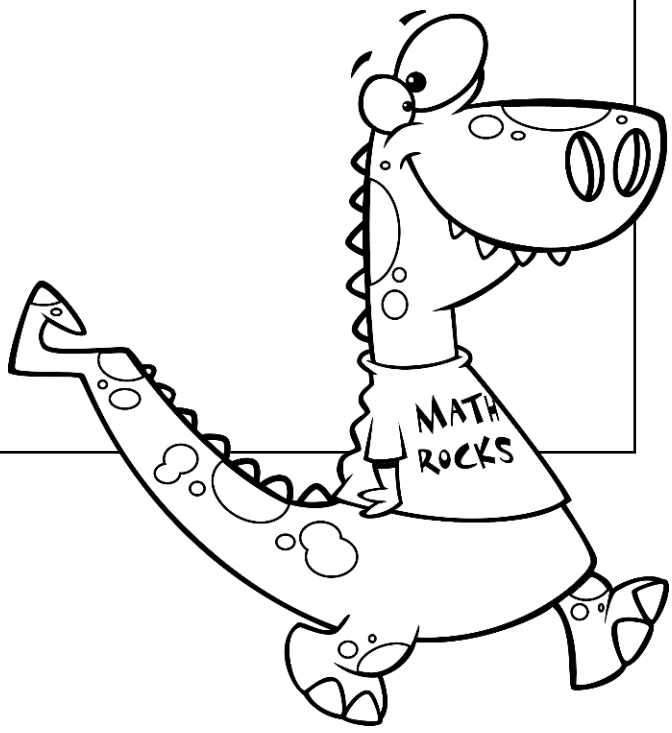
2. Add the ones digits of the numbers. If the sum is 10 or more, carry the tens digit and write the ones digit in the answer.

$$\begin{array}{r} {\scriptstyle 1\ \ 1\ \ \ } \\ 734 \\ +\ \ 78 \\ \hline 812 \end{array}$$

3. Repeat with the tens digits. Be sure to add in any carried digits, too!

→ **812**

4. Continue working right to left until there are no more digits to add.



Find each sum.

19. 17 + 8	20. 24 + 14	21. 36 + 19
22. 255 + 42	23. 91 + 28	24. 52 + 6
25. 319 + 245	26. 567 + 185	27. 306 + 88
28. 87 + 65	29. 423 + 89	30. 387 + 513

Subtracting Whole Numbers

1. Write the problem vertically, lining up the numbers to the right.

ex: 92 - 26

2. Subtract the ones digits of the numbers. If the top digit is less than the bottom digit, borrow. (Cross out the digit next to it and decrease it by one. Add 10 to the ones digit.) Then subtract the bottom digit from the new top one.

$$\begin{array}{r} {\scriptstyle 8}\ {\scriptstyle 12} \\ \cancel{9}\ \cancel{2} \\ -\ 2\ 6 \\ \hline 6\ 6 \end{array}$$

→ **66**

3. Repeat with the tens digits of the numbers.

4. Continue working right to left until there are no more digits to subtract.

Find each difference.

31. $27 - 6$	32. $32 - 14$	33. $81 - 8$
34. $53 - 22$	35. $90 - 79$	36. $216 - 14$
37. $307 - 25$	38. $842 - 37$	39. $513 - 74$
40. $617 - 608$	41. $324 - 159$	42. $400 - 123$

Multiplication & Division

Multiplication is when you combine groups of equal sizes.

You can read the × symbol as "groups of" and the answer will tell you how many there are in all.

ex: 3 × 4

This means 3 groups of 4

3 groups of 4 is 12!

→ 12

Division is when you take a number and break it apart into equal sized groups.

You can read the ÷ symbol as "split into groups of" and the answer will tell you how many groups you can make.

ex: 8 ÷ 2

This means 8 split into groups of 2

8 split into groups of 2 makes 4 groups!

→ 4

Multiplying by Multiples of 10

1. Ignore the zero in the multiple of 10 and multiply the numbers.
2. Add the zero back to your answer.

ex: 40 × 6

Pretend the 40 is a 4, and multiply 4 × 6

4 × 6 = 24

add a zero to the answer

→ 240

Replace the ? with the correct number to make each equation true.

43. $5 \times ? = 30$	44. $9 \times ? = 72$	45. $? \times 7 = 21$
46. $3 \times 6 = ?$	47. $? \times 2 = 14$	48. $4 \times ? = 12$
49. $? \times 6 = 36$	50. $8 \times 3 = ?$	51. $10 \times ? = 20$
52. $32 \div ? = 8$	53. $40 \div ? = 4$	54. $? \div 2 = 5$
55. $27 \div ? = 3$	56. $15 \div 3 = ?$	57. $56 \div ? = 8$

Multiply to find each product.

58. 20×7	59. 60×5	60. 30×9
61. 4×40	62. 2×60	63. 8×80
64. 70×6	65. 30×8	66. 4×20

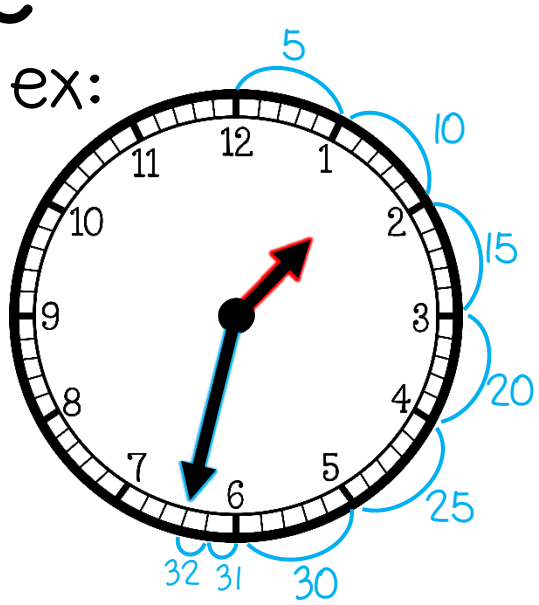
Telling Time

1. Find the hour: Look at the smaller hand (hour hand).
   - If it is pointed directly at a number, that is the hour.
   - If it is between two numbers, the smaller number is the hour.

2. Find the minute: Look at the longer hand (minute hand).
   - If the minute hand is pointed directly at a number on the clock, skip count by 5's until you get to that number.
   - If it is pointed directly at the 12, the minutes are :00 (o'clock).
   - If the minute hand is between two numbers, skip count by 5 until you get to the smaller number and then count on by ones for each additional tick mark.

3. Put the hour and minutes together.

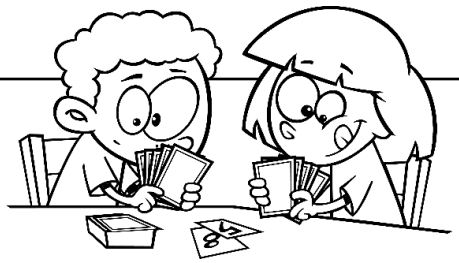
ex:



The hour hand is between the 1 and 2, so the hour is the smaller number: 1

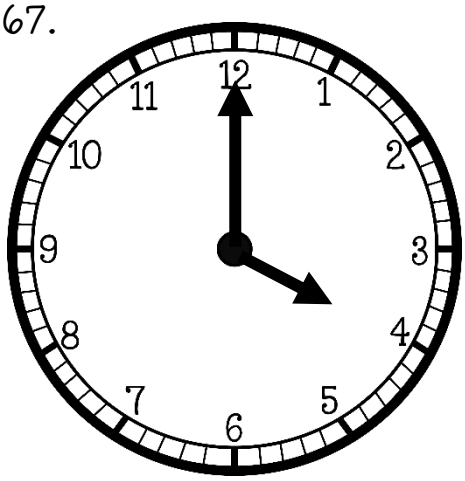
The minute hand is between the 6 and 7. Since 6 is the smaller number, skip count by 5's until you get to the 6. Then count on 2 more since the minute hand is 2 tick marks past the 6. So, the minutes are 32.

→ 1:32



Write the time that is shown on each clock.

67.



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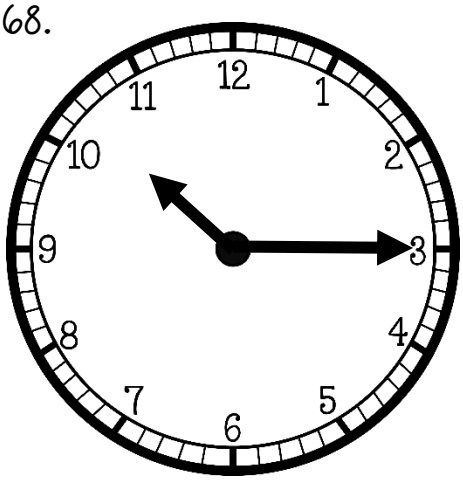

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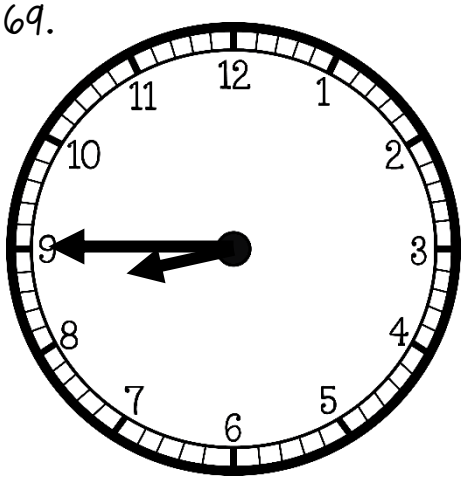

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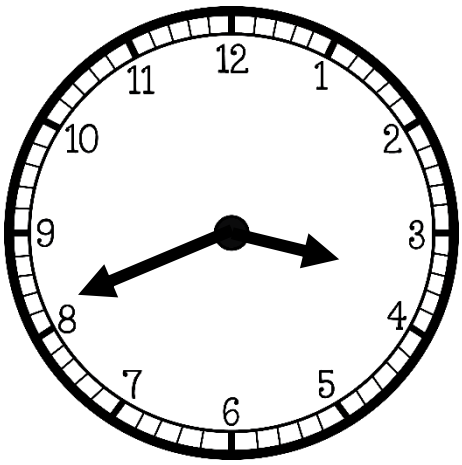

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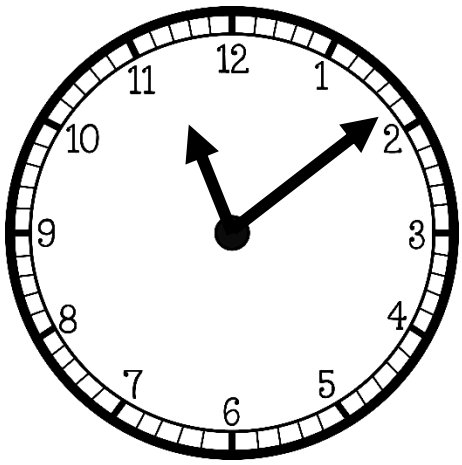

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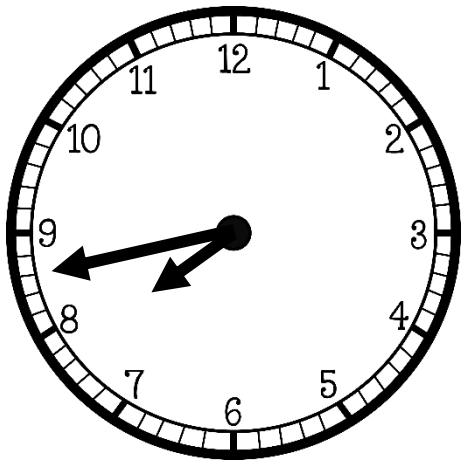

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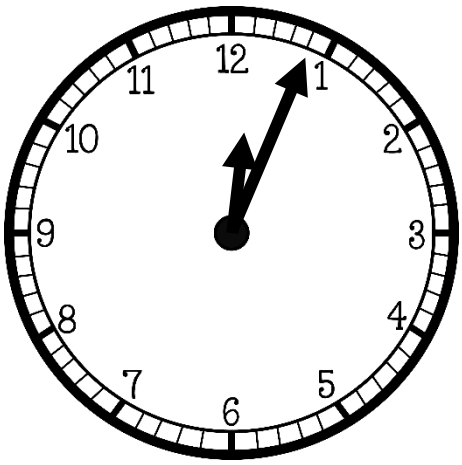

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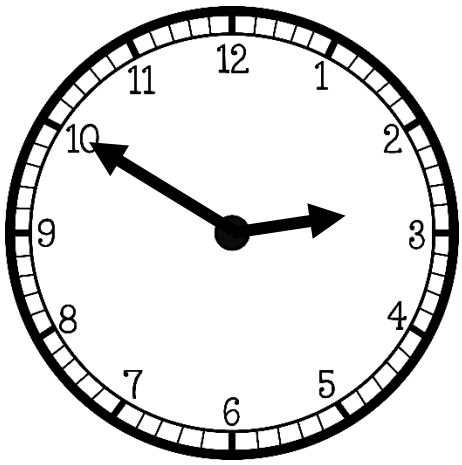

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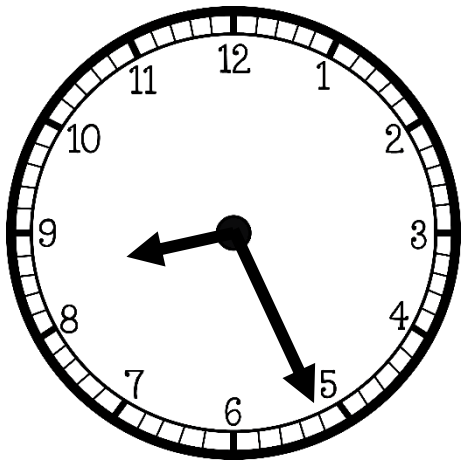


Comparing Fractions

Fraction Basics:

Fractions are used to show part of a whole.

$$\frac{\text{numerator}}{\text{denominator}}$$

ex: What fraction of the rectangle is shaded?

3 shaded sections

4 total sections

→ $\frac{3}{4}$

Comparing Fractions:

$<$ less than $>$ greater than $=$ equal to

- Fractions with the same denominator:
  - The fraction with the *greater numerator* is GREATER than the other fraction.

ex: compare

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

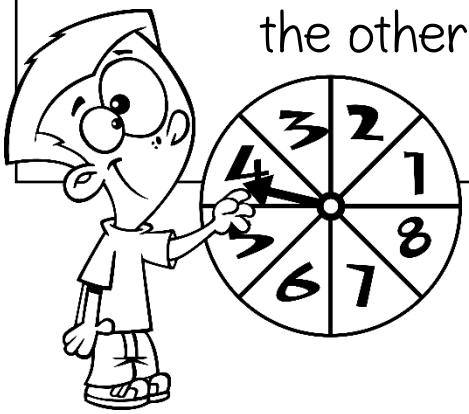
$\frac{1}{3}$ is LESS THAN $\frac{2}{3}$

- Fractions with the same numerator:
  - The fraction with the *smaller denominator* is GREATER than the other fraction.

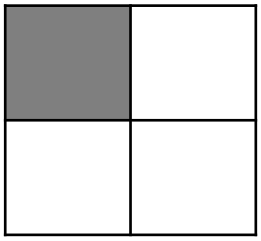
ex: compare

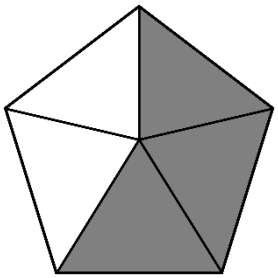
$\frac{1}{2} > \frac{1}{3}$

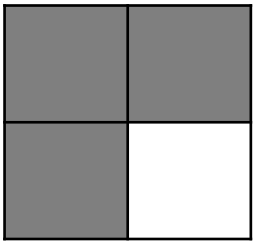
$\frac{1}{2}$ is GREATER THAN $\frac{1}{3}$

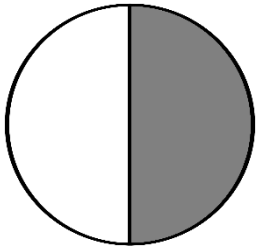


Write a fraction to represent the shaded part of each shape.

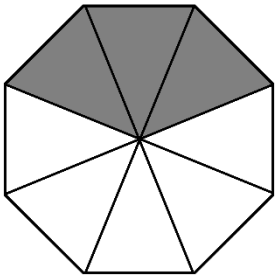
76. 

77. 

78. 

79. 

80. 

81. 

Compare each pair of fractions using <, >, or =.

82. $\frac{3}{5}$ ◯ $\frac{2}{5}$

83. $\frac{1}{4}$ ◯ $\frac{3}{4}$

84. $\frac{5}{8}$ ◯ $\frac{7}{8}$

85. $\frac{2}{3}$ ◯ $\frac{1}{3}$

86. $\frac{5}{10}$ ◯ $\frac{9}{10}$

87. $\frac{4}{6}$ ◯ $\frac{4}{6}$

88. $\frac{2}{9}$ ◯ $\frac{2}{3}$

89. $\frac{2}{3}$ ◯ $\frac{2}{4}$

90. $\frac{3}{8}$ ◯ $\frac{3}{6}$

91. $\frac{1}{5}$ ◯ $\frac{1}{3}$

92. $\frac{4}{8}$ ◯ $\frac{4}{10}$

93. $\frac{5}{6}$ ◯ $\frac{5}{12}$

Perimeter & Area

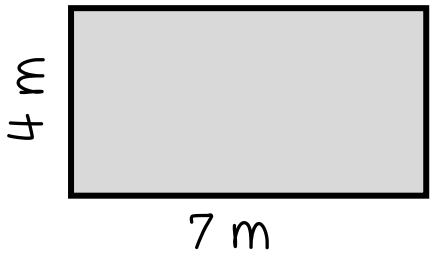
Perimeter

- Perimeter is the distance *around* a figure.
- To find the perimeter of a rectangle, add up all the side lengths.
- Label your answer with the same units as the side lengths.

Area

- Area is the space *inside* a figure.
- To find the area of a rectangle, multiply the length and width.
- Label your answer with square units.

ex: Find the area and perimeter.



Perimeter:

$4 + 7 + 4 + 7 = 22$

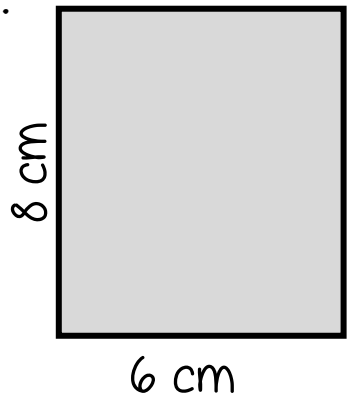
Area:

$4 \times 7 = 28$

→ P= 22 m
A= 28 sq. m

Find the perimeter and area of each rectangle.

94.



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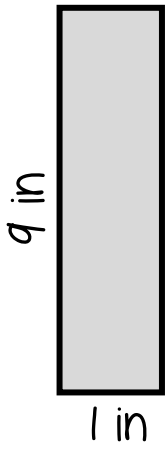

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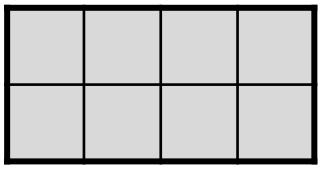

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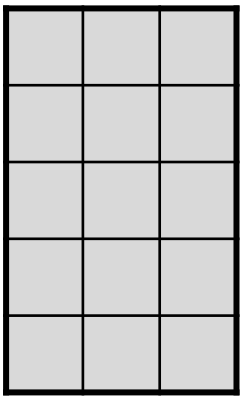

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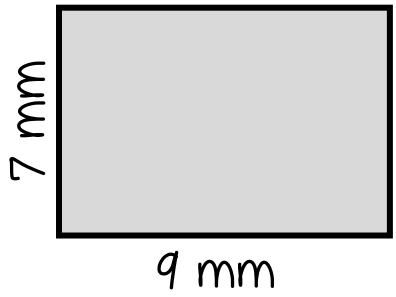

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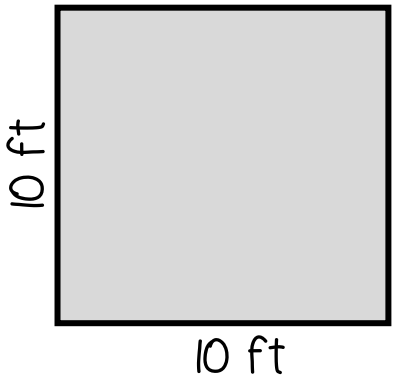

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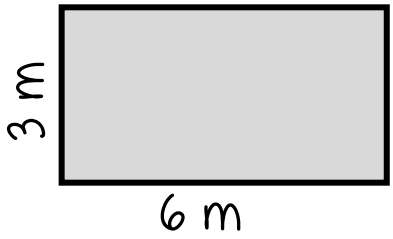

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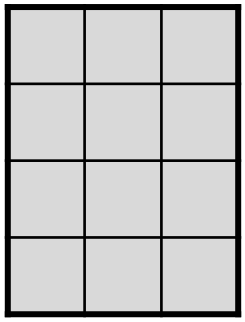

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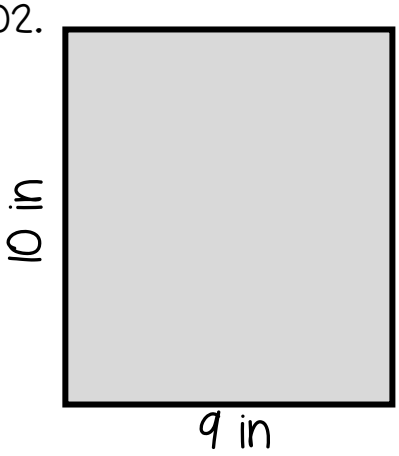

Word Problems

1. Read the problem carefully.

2. Determine what the question is asking & identify the important information you are given.

3. Decide which operations (addition, subtraction, multiplication, or division) you need to use, or pick from a strategy below to help solve the problem.
    - Draw a picture/diagram
    - Make an organized list
    - Look for a pattern
    - Act out the problem
    - Create & use a table or graph
    - Guess and check
    - Work backwards

4. Solve the problem & label your answer.

5. Check to see if your answer makes sense.

Solve each word problem.

103. Mrs. Jones has 4 packs of pencils. Each pack contains 9 pencils. How many pencils does she have in all?	104. Trevon watched a movie that was 2 hours and 15 minutes long. If the movie started at 1:55 PM, at what time was the movie over?	105. Sofia went strawberry picking. She gave her mom 6 strawberries and gave her grandmother 5 strawberries. If she had 8 strawberries left, how many strawberries did Sofia pick in all?
106. 40 students signed up for the school volleyball tournament. The students were broken up into 5 teams. How many students were on each team?	107. Sienna bought three shirts for $8 each and one skirt that cost $15. How much money did she spend in all?	108. John got to the bus stop at 7:47 AM. The bus picked him up at 8:05 AM. How long was John waiting at the bus stop?
109. Devon earned 565 points in his favorite video game on Monday. On Tuesday, he earned 730 points in the game. How many more points did Devon earn on Tuesday than on Monday?	110. Jillian is helping her father make a garden in their backyard. Their garden is 8 feet long and 5 feet wide. They want to put wood edging around the garden. How much wood do they need?	111. Jack had two packs of water balloons. There were 40 water balloons in each pack. He and his friends used 62 of the water balloons in a big water fight. How many water balloons does Jack have left?

Multiplication Facts to 10 Practice (A)

1. 7×9	2. 8×2	3. 2×3	4. 3×4
5. 1×5	6. 8×9	7. 5×8	8. 3×3
9. 4×1	10. 3×7	11. 10×6	12. 6×4
13. 7×7	14. 2×9	15. 6×8	16. 8×7
17. 9×4	18. 6×1	19. 2×7	20. 4×5

Multiplication Facts to 10 Practice (B)

1. 5×7	2. 3×6	3. 10×4	4. 1×9
5. 6×6	6. 2×10	7. 9×3	8. 5×9
9. 3×5	10. 5×5	11. 1×7	12. 8×4
13. 6×2	14. 7×6	15. 2×4	16. 2×2
17. 7×4	18. 5×10	19. 3×8	20. 9×6

Multiplication Facts to 10 Practice (C)

1. 5×2	2. 1×2	3. 7×10	4. 8×8
5. 4×4	6. 9×10	7. 3×4	8. 6×5
9. 5×8	10. 10×3	11. 3×6	12. 7×7
13. 6×8	14. 5×5	15. 4×6	16. 9×2
17. 1×3	18. 7×9	19. 10×8	20. 9×9

Multiplication Facts to 10 Practice (D)

1. 2×3	2. 10×10	3. 6×7	4. 2×2
5. 4×4	6. 2×10	7. 1×8	8. 5×10
9. 8×2	10. 9×9	11. 6×9	12. 7×4
13. 6×6	14. 4×5	15. 10×1	16. 8×7
17. 9×3	18. 7×10	19. 5×3	20. 9×10

Multiplication Facts to 10 Practice (E)

1. 6×5	2. 10×3	3. 1×1	4. 9×1
5. 8×4	6. 7×3	7. 2×6	8. 8×9
9. 8×3	10. 4×10	11. 7×5	12. 8×8
13. 2×4	14. 9×5	15. 2×7	16. 4×9
17. 7×1	18. 10×10	19. 5×2	20. 3×3

Multiplication Facts to 12 Practice (A)

1. 2×11	2. 6×4	3. 12×9	4. 4×3
5. 6×9	6. 2×7	7. 9×8	8. 5×8
9. 7×6	10. 8×11	11. 3×10	12. 5×2
13. 6×12	14. 2×4	15. 12×8	16. 5×9
17. 7×8	18. 6×6	19. 4×5	20. 10×7

Multiplication Facts to 12 Practice (B)

1. 3×9	2. 8×1	3. 11×5	4. 4×7
5. 12×12	6. 10×4	7. 9×9	8. 6×3
9. 7×12	10. 9×10	11. 2×3	12. 4×8
13. 6×5	14. 2×12	15. 11×9	16. 7×7
17. 3×5	18. 9×2	19. 6×8	20. 1×5

Multiplication Facts to 12 Practice (C)

1. 6×11	2. 3×3	3. 9×4	4. 10×10
5. 3×8	6. 12×4	7. 5×7	8. 2×8
9. 11×12	10. 9×7	11. 1×6	12. 3×7
13. 10×8	14. 3×11	15. 6×2	16. 5×12
17. 5×5	18. 2×10	19. 11×11	20. 12×1

Multiplication Facts to 12 Practice (D)

1. 2×2	2. 4×11	3. 5×10	4. 10×12
5. 9×1	6. 7×11	7. 8×8	8. 11×10
9. 4×4	10. 1×3	11. 10×6	12. 3×12
13. 7×4	14. 5×2	15. 6×9	16. 4×8
17. 6×7	18. 9×10	19. 5×5	20. 2×7

Multiplication Facts to 12 Practice (E)

1. 12×2	2. 4×6	3. 4×10	4. 11×8
5. 7×7	6. 5×9	7. 2×3	8. 1×7
9. 6×8	10. 5×3	11. 2×9	12. 8×5
13. 10×11	14. 6×12	15. 8×9	16. 3×6
17. 4×1	18. 12×7	19. 11×5	20. 3×10

Division Facts to 100 Practice (A)

1. $100 \div 10$	2. $8 \div 4$	3. $21 \div 3$	4. $24 \div 8$
5. $48 \div 6$	6. $81 \div 9$	7. $54 \div 6$	8. $14 \div 2$
9. $50 \div 5$	10. $56 \div 7$	11. $6 \div 3$	12. $15 \div 5$
13. $28 \div 7$	14. $18 \div 2$	15. $32 \div 4$	16. $60 \div 10$
17. $5 \div 1$	18. $45 \div 9$	19. $3 \div 3$	20. $18 \div 6$

Division Facts to 100 Practice (B)

1. $12 \div 6$	2. $49 \div 7$	3. $36 \div 4$	4. $30 \div 5$
5. $12 \div 3$	6. $16 \div 4$	7. $72 \div 9$	8. $20 \div 10$
9. $7 \div 7$	10. $40 \div 8$	11. $21 \div 7$	12. $9 \div 1$
13. $25 \div 5$	14. $42 \div 6$	15. $4 \div 2$	16. $80 \div 8$
17. $9 \div 3$	18. $24 \div 6$	19. $40 \div 10$	20. $10 \div 2$

Division Facts to 100 Practice (C)

1. $16 \div 2$	2. $63 \div 7$	3. $20 \div 4$	4. $36 \div 6$
5. $27 \div 3$	6. $70 \div 10$	7. $6 \div 1$	8. $35 \div 5$
9. $90 \div 9$	10. $64 \div 8$	11. $4 \div 4$	12. $30 \div 10$
13. $12 \div 4$	14. $42 \div 7$	15. $15 \div 3$	16. $18 \div 9$
17. $8 \div 2$	18. $40 \div 5$	19. $54 \div 9$	20. $18 \div 3$

Division Facts to 100 Practice (D)

1. $8 \div 1$	2. $72 \div 8$	3. $24 \div 4$	4. $2 \div 2$
5. $56 \div 8$	6. $36 \div 9$	7. $24 \div 3$	8. $16 \div 4$
9. $10 \div 10$	10. $60 \div 6$	11. $63 \div 9$	12. $12 \div 2$
13. $48 \div 8$	14. $30 \div 6$	15. $49 \div 7$	16. $30 \div 3$
17. $28 \div 4$	18. $20 \div 5$	19. $1 \div 1$	20. $32 \div 8$

Division Facts to 100 Practice (E)

1. $25 \div 5$	2. $6 \div 2$	3. $35 \div 7$	4. $16 \div 8$
5. $40 \div 4$	6. $7 \div 1$	7. $45 \div 5$	8. $64 \div 8$
9. $20 \div 2$	10. $14 \div 7$	11. $27 \div 9$	12. $10 \div 5$
13. $36 \div 6$	14. $9 \div 9$	15. $9 \div 3$	16. $70 \div 7$
17. $50 \div 10$	18. $21 \div 3$	19. $8 \div 2$	20. $81 \div 9$

Division Facts to 144 Practice (A)

1. $121 \div 11$	2. $18 \div 2$	3. $24 \div 3$	4. $48 \div 8$
5. $72 \div 6$	6. $108 \div 9$	7. $54 \div 6$	8. $42 \div 7$
9. $50 \div 5$	10. $16 \div 4$	11. $6 \div 3$	12. $10 \div 5$
13. $11 \div 11$	14. $8 \div 2$	15. $63 \div 9$	16. $66 \div 6$
17. $24 \div 4$	18. $48 \div 12$	19. $3 \div 1$	20. $35 \div 5$

Division Facts to 144 Practice (B)

1. $80 \div 10$	2. $18 \div 3$	3. $64 \div 8$	4. $36 \div 9$
5. $84 \div 12$	6. $20 \div 4$	7. $14 \div 2$	8. $9 \div 1$
9. $55 \div 11$	10. $60 \div 6$	11. $36 \div 3$	12. $40 \div 5$
13. $72 \div 9$	14. $4 \div 2$	15. $120 \div 10$	16. $28 \div 7$
17. $132 \div 12$	18. $48 \div 12$	19. $4 \div 4$	20. $36 \div 6$

Division Facts to 144 Practice (C)

1. $12 \div 4$	2. $33 \div 11$	3. $45 \div 9$	4. $56 \div 7$
5. $20 \div 2$	6. $20 \div 4$	7. $12 \div 6$	8. $5 \div 5$
9. $90 \div 10$	10. $88 \div 8$	11. $27 \div 3$	12. $96 \div 12$
13. $21 \div 7$	14. $40 \div 4$	15. $7 \div 1$	16. $32 \div 8$
17. $16 \div 2$	18. $44 \div 11$	19. $25 \div 5$	20. $60 \div 5$

Division Facts to 144 Practice (D)

1. $8 \div 8$	2. $15 \div 3$	3. $30 \div 5$	4. $49 \div 7$
5. $144 \div 12$	6. $99 \div 11$	7. $30 \div 10$	8. $6 \div 1$
9. $70 \div 7$	10. $81 \div 9$	11. $28 \div 4$	12. $110 \div 11$
13. $54 \div 9$	14. $24 \div 2$	15. $48 \div 6$	16. $2 \div 1$
17. $77 \div 7$	18. $100 \div 10$	19. $84 \div 7$	20. $12 \div 2$

Division Facts to 144 Practice (E)

1. $12 \div 1$	2. $18 \div 6$	3. $35 \div 7$	4. $90 \div 9$
5. $64 \div 8$	6. $55 \div 5$	7. $1 \div 1$	8. $18 \div 9$
9. $48 \div 4$	10. $4 \div 2$	11. $32 \div 4$	12. $132 \div 11$
13. $72 \div 8$	14. $10 \div 2$	15. $20 \div 5$	16. $9 \div 3$
17. $42 \div 6$	18. $60 \div 10$	19. $33 \div 3$	20. $63 \div 7$