Delta

Single & Multiple-Digit Division

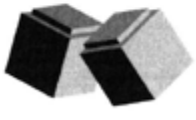
Student Workbook

Math·U·See
Building Understanding

δ Delta

Single and Multiple-Digit Division

Student Workbook



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Delta Student Workbook: Single and Multiple-Digit Division

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Delta

	LESSON PRACTICE			SYSTEMATIC REVIEW			
	A	B	C	D	E	F	TEST
1 Rectangle							
2 Divide ÷ 1, ÷ 2							
3 Divide ÷ 10							
4 Divide ÷ 5, ÷ 3							
5 Parallel, Perpendicular							
6 Divide ÷ 9							
Unit Test 1							
7 Area Parallelogram							
8 Divide ÷ 6							
9 Area Triangle							
10 Divide ÷ 4							
11 Average							
12 Divide ÷ 7, ÷ 8							
Unit Test 2							
13 Area Trapezoid							
14 Thousand, Million							
15 Billion, Trillion							
16 Divide with Remainder							
17 Multiply Up/Down							
18 Divide 2 Digit							
19 Divide 3 Digit							
20 Divide 3 Digit							
21 Round and Estimate							
Unit Test 3							
22 Divide 3 by 2 Digit							
23 Divide 4 by 1 Digit							
24 Divide 4 by 2 Digit							
25 Divide Multiple-Digit							
26 Volume							
27 Fraction of Number							
28 Roman Numeral I							
29 Fraction of One							
30 Roman Numeral II							
Unit Test 4							
Final Test							

APPLICATION AND ENRICHMENT PAGES

This edition of the *Delta Student Workbook* includes extra activity pages titled "Application and Enrichment." You will find one enrichment page after the last systematic review page for each lesson. They are intended to do the following:

- Provide enjoyable practice of lesson concepts.
- Stimulate thinking by presenting concepts in different formats.
- Include activities suitable for a wide range of learning styles.
- Enrich learning with additional age-appropriate activities.
- Introduce new concepts that may be useful to students at this level.

The Application and Enrichment pages may be scheduled any time after the student has completed the corresponding lesson. Some activities may be challenging or require a new way of looking at a concept. Encourage students to think carefully for themselves, but do not hesitate to give them as much help as they need.

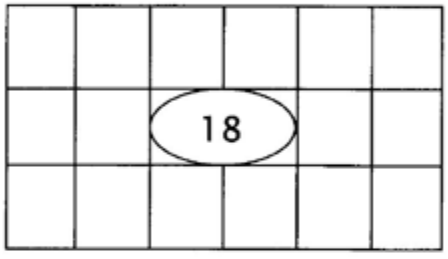
You can find helpful teaching tips and the solutions for the Application and Enrichment pages in the 2012 edition of the *Delta Instruction Manual.*

LESSON PRACTICE

QUICK REVIEW

Fill in the parentheses with the factors and write the product in the oval. Then write the problem two ways beside the rectangle. The first one has been done for you.

1.



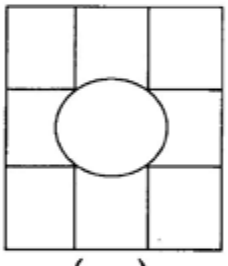
(3)

(6)

$6 \times 3 = 18$

$3 \times 6 = 18$

2.



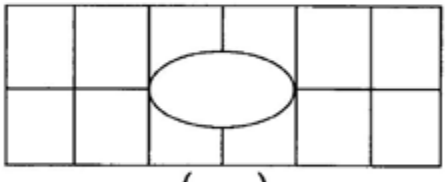
( )

( )

___ × ___ = ___

If the figure is a square, write the problem only one time.

3.



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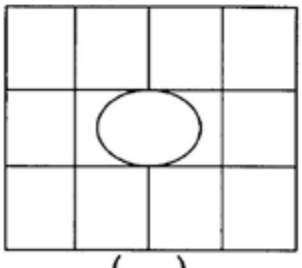
___ · ___ = ___

___ · ___ = ___

4.



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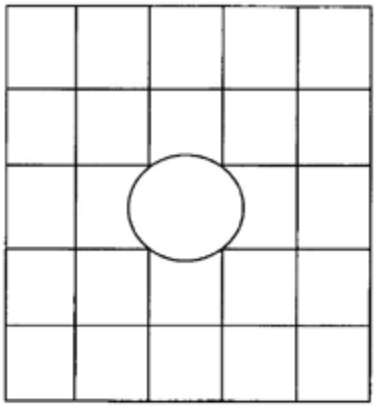
( )

( )( ) = ____

( )( ) = ____

5.



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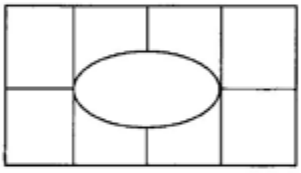
___ × ___ = ___

6.



( )

( )

( )( ) = ____

( )( ) = ____

Solve for the unknown. Write your answer above the letter.

7. 6X = 36

8. 2Y = 20

9. 4R = 28

10. 5W = 20

11. 7H = 21

12. 8B = 24

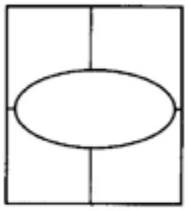
13. 7X = 49

14. 5G = 30

LESSON PRACTICE

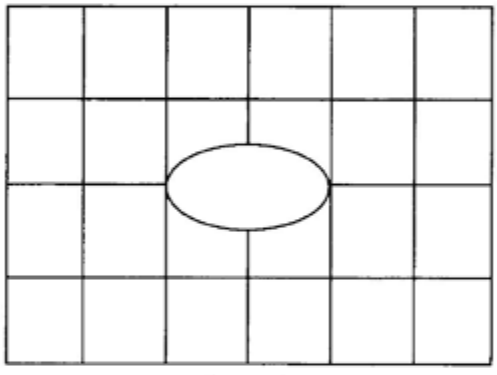
Fill in the parentheses with the factors and write the product in the oval. Then write the problem beside the rectangle. (Remember that a square is a special kind of rectangle.)

1.



( ) ( ) ___ · ___ = ___

2.

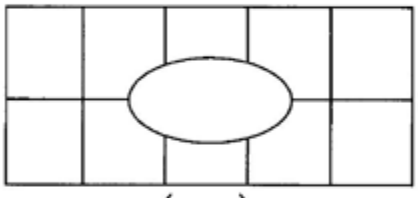


( ) ( )

___ × ___ = ___

___ × ___ = ___

3.

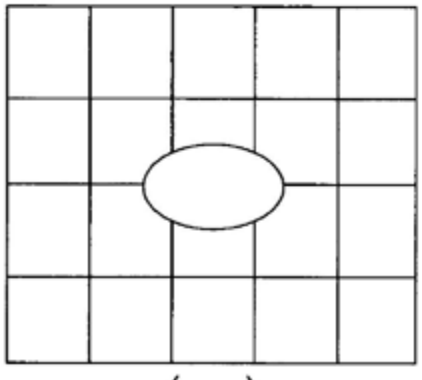


( ) ( )

( )( ) = ____

( )( ) = ____

4.

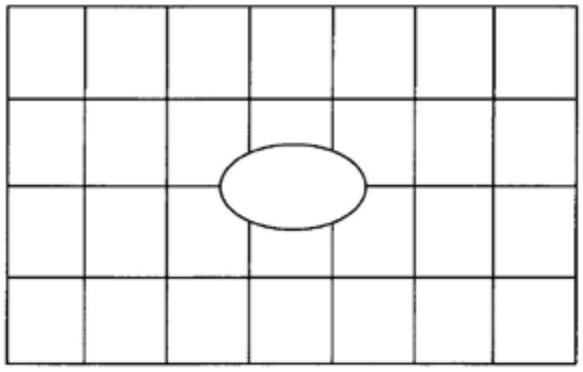


( ) ( )

___ · ___ = ___

___ · ___ = ___

5.

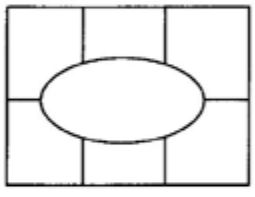


( )

( ) ___ × ___ = ___

___ × ___ = ___

6.



( )

( )

( )( ) = ____

( )( ) = ____

Solve for the unknown.

7. 3X = 3

8. 2Y = 4

9. 1R = 10

10. 8W = 16

11. 7H = 14

12. 5B = 30

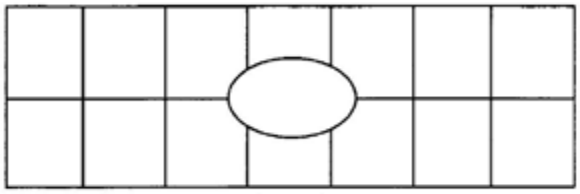
13. 10X = 100

14. 5G = 45

LESSON PRACTICE

Fill in the parentheses with the factors and write the product in the oval. Then write the problem beside the rectangle.

1.



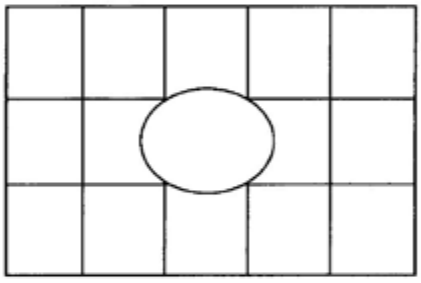
( )

( )

___ · ___ = ___

___ · ___ = ___

2.



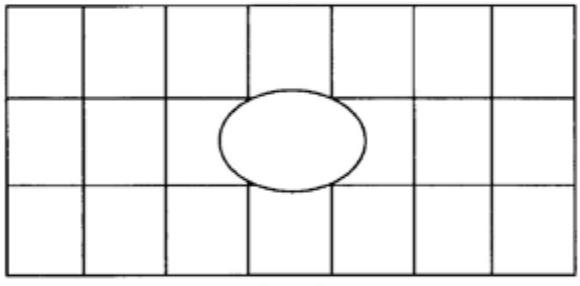
( )

( )

___ × ___ = ___

___ × ___ = ___

3.



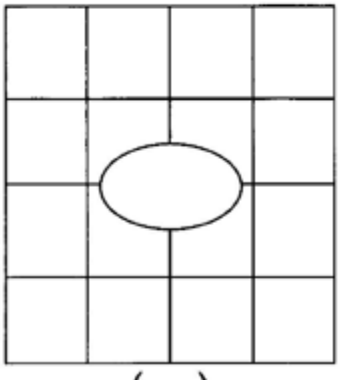
( )

( )

( )( ) = ___

( )( ) = ___

4.

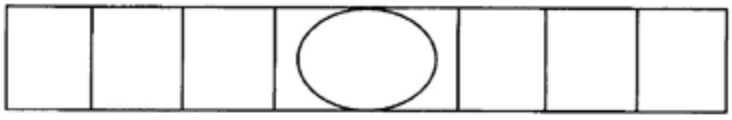


( )

( )

___ · ___ = ___

5.



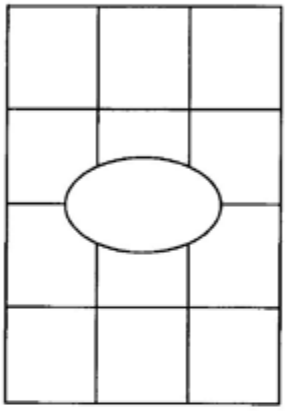
( )

( )

___ × ___ = ___

___ × ___ = ___

6.



( )

( )( ) = ____

( )( ) = ____

( )

Solve for the unknown.

7. $8X = 56$

8. $9Y = 36$

9. $6R = 24$

10. $3W = 27$

11. $5H = 45$

12. $6B = 18$

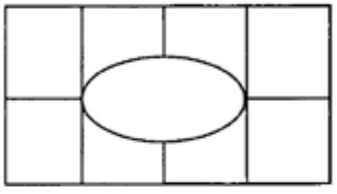
13. $10X = 90$

14. $2G = 16$

SYSTEMATIC REVIEW

Fill in the parentheses with the factors and write the product in the oval. Then write the problem beside the rectangle.

1.



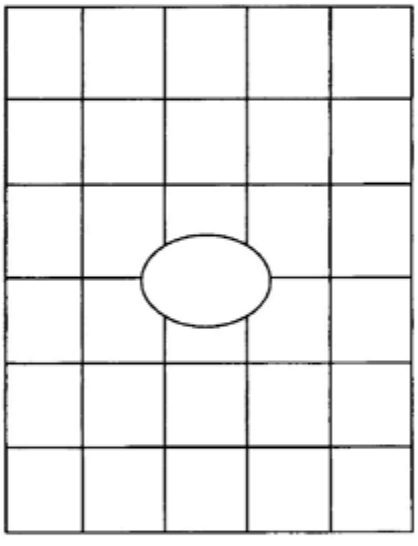
( )

( )

( )( ) = ____

( )( ) = ____

2.



( )

( )

____ × ____ = ____

____ × ____ = ____

Solve for the unknown.

3. 7A = 49

4. 10C = 80

5. 3F = 24

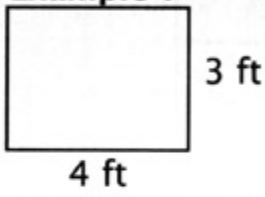
6. 4B = 36

QUICK REVIEW

The product of two factors is the ***area*** of a rectangle or square. These problems are labeled with a unit of length. The area should be labeled with square units.

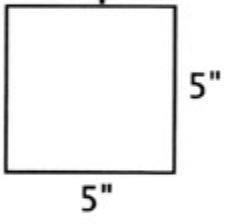
When we multiply measurements that include units, we are multiplying the units along with the rest of the numbers. Think of 3 ft × 4 ft as 3 × ft × 4 × ft. We can rewrite this as 3 × 4 × ft × ft = 12 sq ft.

Example 1



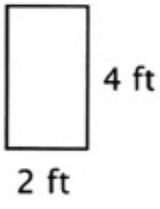
Area = 3 ft × 4 ft = 12 sq ft (square feet)

Example 2

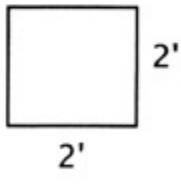


Area = 5 in × 5 in = 25 sq in (square inches)

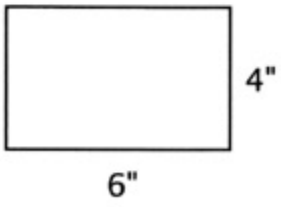
Notice that 2 in and 2" both represent two inches and 2 ft and 2' both stand for two feet. The diagrams may not always be drawn to scale.

7. 

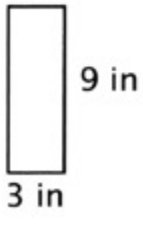
A = _____ sq ft

8. 

A = _____

9. 

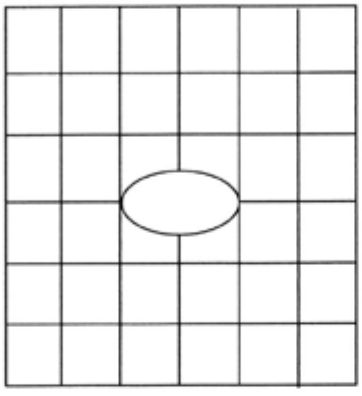
A = _____ sq in

10. 

A = _____

Fill in the parentheses with the factors and write the product in the oval. Then write the problem beside the rectangle.

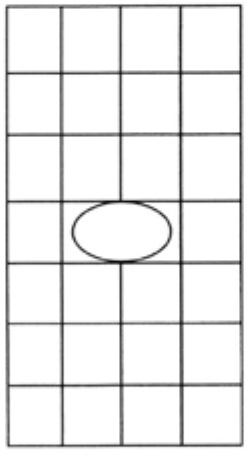
1.



( ) ___ · ___ = ___

( )

2.



( )

( )( ) = ___

( )( ) = ___

( )

Solve for the unknown.

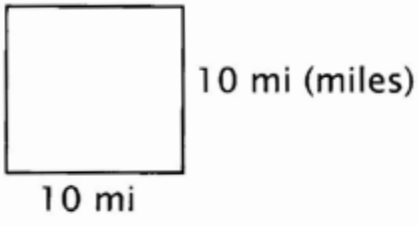
3. 9A = 81

4. 3C = 15

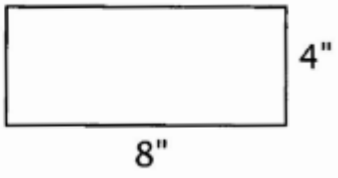
5. $7F = 42$

6. $2B = 10$

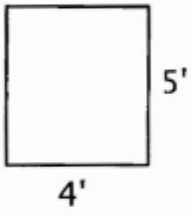
Find the area. Label your answers correctly.

7. 

A = _____

8. 

A = _____

9. 

A = _____

When solving for the unknown, it is helpful to use a letter that reminds you of the unknown number, such as F for flowers in #10.

10. Jenny had 20 flowers and four vases. She wants all the vases to look the same. How many flowers will she put in each vase? (This is solving for the unknown. 4F = 20 flowers)

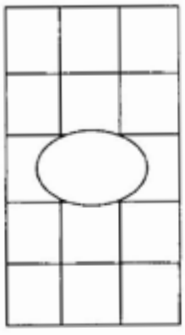
11. Julia owns 30 rabbits. If she can put three rabbits in a hutch, how many hutches does she need? (solving for the unknown)

12. A table top is three feet long and two feet wide. What is the area of the table top?

SYSTEMATIC REVIEW

Fill in the parentheses with the factors and write the product in the oval. Then write the problem beside the rectangle.

1.



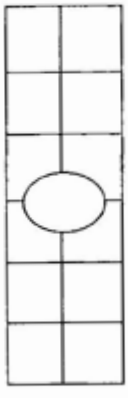
( )

( )

___ × ___ = ___

___ × ___ = ___

2.



( )

( )

___ · ___ = ___

___ · ___ = ___

Solve for the unknown.

3. $5A = 25$

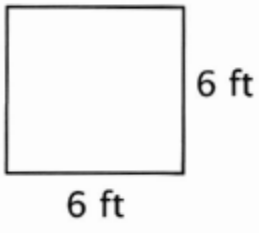
4. $7C = 56$

5. $9F = 54$

6. $3B = 18$

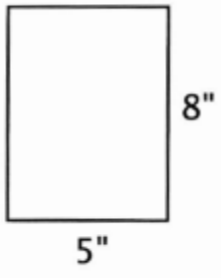
Find the area. Label your answers correctly.

7.



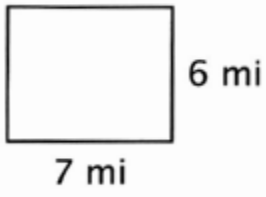
A = _____

8.



A = _____

9.



A = _____

10. Justina has $24 to spend on gifts for four friends. She will spend the same amount for each gift. How much can she spend on each person?

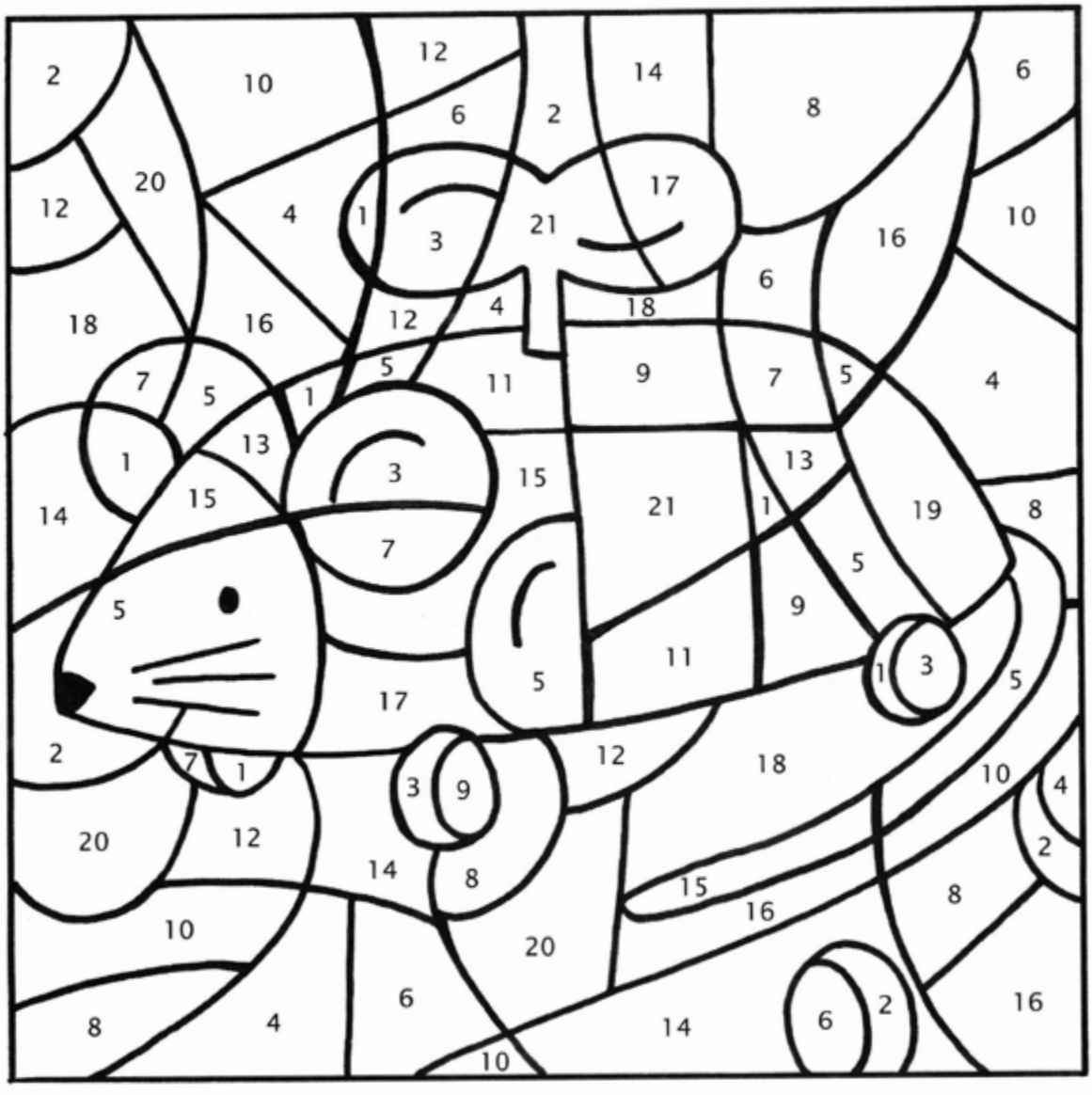
11. A job will take 36 hours to complete. Nine people are available to do the job, and each one will work the same length of time. How many hours will each person work?

12. The new park is a rectangle six miles long and five miles wide. What is the area of the park?

APPLICATION AND ENRICHMENT

Recognizing the factors of a number is good preparation for division. These color-by-number pictures will help you review the multiplication facts and get ready for division. You may want to use colored pencils for these drawings.

If the number has two as a factor, color the space orange.
If the number does not have two as a factor, color the space tan or light brown.



Multiplication squares can help you practice your facts. Multiply the numbers across each row and write the answers in the right hand column. Multiply the numbers in each column and write those answers at the bottom. Multiply your answers down and across to find the number that goes in the last empty square. The first one has been done for you.

1.

5	4	20
3	2	6
15	8	120

2.

3	6	
9	3	

3.

7	2	
5	4	

4.

4	3	
6	8	

LESSON PRACTICE

Answer the questions.

1. How many twos can you count out of eight?

2. How many ones can you count out of ten?

3. How many twos can you count out of fourteen?

4. How many twos can you count out of six?

5. How many ones can you count out of seven?

Divide.

6. $16 \div 2 =$ _____

7. $9 \div 1 =$ _____

8. $4 \div 2 =$ _____

9. $5 \div 1 =$ _____

10. $18 \div 2 =$ _____

11. $8 \div 1 =$ _____

12. $12 \div 2 =$ _____

13. $2 \div 1 =$ _____

14. $4 \div 1 =$ _____

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

16. $\frac{2}{2} =$ _____

17. $\frac{6}{1} =$ _____

18. $\frac{1}{1} =$ _____

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

You already know how to solve for the unknown by using your knowledge of multiplication. Now that you know how to divide by two, you can also solve for the unknown by dividing. The equation $10 = 2A$ tells you that 10 is two times greater than some number. Think "$10 \div 2 = 5$, so 10 is two times greater than the number five."

20. The number eight is two times greater than what number? The equation is $8 = 2X$. Divide to find the value of X.

21. Sixteen eyes stared at the teacher. How many people were looking at her?

22. There are 10 cookies and 2 children. You want each child to receive the same number of cookies. How many cookies may each child have?

LESSON PRACTICE

Answer the questions.

1. How many twos can you count out of ten?

2. How many twos can you count out of sixteen?

3. How many ones can you count out of one?

4. How many ones can you count out of five?

5. How many twos can you count out of twelve?

Divide.

6. $10 \div 2 =$ _____

7. $16 \div 2 =$ _____

8. $14 \div 2 =$ _____

9. $2 \div 2 =$ _____

10. $2 \div 1 =$ _____

11. $18 \div 2 =$ _____

12. $9 \div 1 =$ _____

13. $8 \div 2 =$ _____

14. $6 \div 1 =$ _____

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

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

17. $\frac{4}{2} =$ _____

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

19. $\frac{6}{2} =$ _____

20. The number 14 is two times greater than what number? The equation is $14 = 2B$. Divide to find the value of B.

21. There are eight doughnuts. If each person is to get one, how many people can be served?

22. If it is decided to give each person two doughnuts, how many may be served with eight doughnuts?

LESSON PRACTICE

Answer the questions.

1. How many ones can you count out of nine?

2. How many twos can you count out of eighteen?

3. How many ones can you count out of four?

4. How many twos can you count out of twenty?

5. How many twos can you count out of four?

Divide.

6. $2 \div 2 =$ _____

7. $8 \div 2 =$ _____

8. $6 \div 2 =$ _____

9. $4 \div 2 =$ _____

10. $6 \div 1 =$ _____

11. $12 \div 2 =$ _____

12. $10 \div 1 =$ _____

13. $16 \div 2 =$ _____

14. $7 \div 1 =$ _____

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

16. $\frac{1}{1} =$ _____

17. $\frac{18}{2} =$ _____

18. $\frac{9}{1} =$ _____

19. $\frac{20}{2} =$ _____

20. The number 10 is two times greater than what number? The equation is $10 = 2A$. Divide to find the value of A.

21. Twelve ears listened carefully to the speaker. How many people were listening?

22. There are six chairs in the room. If only one person sits in each chair, how many people can be seated?

SYSTEMATIC REVIEW

Divide.

1. $4 \div 2 =$ _____

2. $8 \div 1 =$ _____

3. $4 \div 1 =$ _____

4. $18 \div 2 =$ _____

5. $2 \div 2 =$ _____

6. $2 \div 1 =$ _____

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

8. $\frac{16}{2} =$ _____

9. $\frac{5}{1} =$ _____

QUICK REVIEW

There are several ways to write a multiplication problem. Study the following examples. In this lesson, we will be reviewing the five and ten facts.

Example 1

$5 \cdot 4 = 20$ $\quad (5)(4) = 20$ $\quad 5 \times 4 = 20$

$$\begin{array}{r} 4 \\ \times\ 5 \\ \hline 20 \end{array}$$

Multiply.

10. $\begin{array}{r} 5 \\ \times\ 6 \\ \hline \end{array}$

11. $\begin{array}{r} 10 \\ \times\ 9 \\ \hline \end{array}$

12. $10 \times 6 =$ _____

13. $(5)(7) =$ _____

Solve for the unknown.

14. $5X = 35$

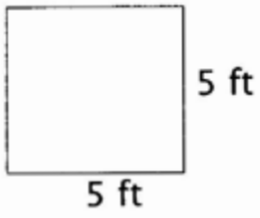
15. $5R = 45$

16. $10B = 10$

17. $10Y = 40$

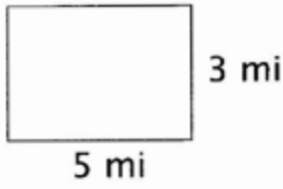
Find the area. Label your answers correctly.

18.



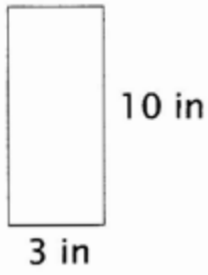
A = _____

19.



A = _____

20.



A = _____

21. How many twos can you count out of eighteen?

22. Sally has 18 pennies. If she divides them into piles with two pennies in each, how many piles will she have?

SYSTEMATIC REVIEW

Divide.

1. $6 \div 1 =$ ____

2. $8 \div 2 =$ ____

3. $9 \div 1 =$ ____

4. $18 \div 2 =$ ____

5. $2 \div 2 =$ ____

6. $2 \div 1 =$ ____

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

8. $\frac{10}{2} =$ ____

9. $\frac{1}{1} =$ ____

Solve for the unknown.

10. $5X = 5$

11. $8R = 80$

12. $7B = 35$

13. $3Y = 30$

Multiply.

14. $\begin{array}{r} 8 \\ \times\ 5 \\ \hline \end{array}$

15. $\begin{array}{r} 10 \\ \times\ 7 \\ \hline \end{array}$

16. $2 \times 10 =$ ____

17. $10 \cdot 10 =$ ____

Find the area. Label your answers correctly.

18. 

A = _____

19. 

A = _____

20. 

A = _____

21. How many ones can you count out of eight?

22. Two birds can live together in a cage. There are 20 birds. How many cages are needed?

SYSTEMATIC REVIEW

2F

Divide.

1. $5 \div 1 =$ ____

2. $16 \div 2 =$ ____

3. $4 \div 2 =$ ____

4. $8 \div 1 =$ ____

5. $14 \div 2 =$ ____

6. $12 \div 2 =$ ____

7. $\frac{18}{2} =$ ____

8. $\frac{10}{2} =$ ____

9. $\frac{20}{2} =$ ____

Solve for the unknown.

10. $5X = 20$

11. $5R = 50$

12. $9B = 90$

13. $5Y = 40$

Multiply.

14. $\begin{array}{r} 9 \\ \times\ 5 \\ \hline \end{array}$

15. $\begin{array}{r} 10 \\ \times\ 4 \\ \hline \end{array}$

16. $2 \cdot 5 =$ ____

17. $(10)(8) =$ ____

Find the area. Label your answers correctly.

18. 

A = _____

19. 

A = _____

20. 

A = _____

21. How many twos can you count out of two?

22. Jill has 14 stickers. She plans to divide them evenly between two friends. How many stickers will each friend receive?

Division Facts Sheet

1 ÷ 1	2 ÷ 2	3 ÷ 3	4 ÷ 4	5 ÷ 5	6 ÷ 6	7 ÷ 7	8 ÷ 8	9 ÷ 9	10 ÷ 10
2 ÷ 1	4 ÷ 2	6 ÷ 3	8 ÷ 4	10 ÷ 5	12 ÷ 6	14 ÷ 7	16 ÷ 8	18 ÷ 9	20 ÷ 10
3 ÷ 1	6 ÷ 2	9 ÷ 3	12 ÷ 4	15 ÷ 5	18 ÷ 6	21 ÷ 7	24 ÷ 8	27 ÷ 9	30 ÷ 10
4 ÷ 1	8 ÷ 2	12 ÷ 3	16 ÷ 4	20 ÷ 5	24 ÷ 6	28 ÷ 7	32 ÷ 8	36 ÷ 9	40 ÷ 10
5 ÷ 1	10 ÷ 2	15 ÷ 3	20 ÷ 4	25 ÷ 5	30 ÷ 6	35 ÷ 7	40 ÷ 8	45 ÷ 9	50 ÷ 10
6 ÷ 1	12 ÷ 2	18 ÷ 3	24 ÷ 4	30 ÷ 5	36 ÷ 6	42 ÷ 7	48 ÷ 8	54 ÷ 9	60 ÷ 10
7 ÷ 1	14 ÷ 2	21 ÷ 3	28 ÷ 4	35 ÷ 5	42 ÷ 6	49 ÷ 7	56 ÷ 8	63 ÷ 9	70 ÷ 10
8 ÷ 1	16 ÷ 2	24 ÷ 3	32 ÷ 4	40 ÷ 5	48 ÷ 6	56 ÷ 7	64 ÷ 8	72 ÷ 9	80 ÷ 10
9 ÷ 1	18 ÷ 2	27 ÷ 3	36 ÷ 4	45 ÷ 5	54 ÷ 6	63 ÷ 7	72 ÷ 8	81 ÷ 9	90 ÷ 10
10 ÷ 1	20 ÷ 2	30 ÷ 3	40 ÷ 4	50 ÷ 5	60 ÷ 6	70 ÷ 7	80 ÷ 8	90 ÷ 9	100 ÷ 10

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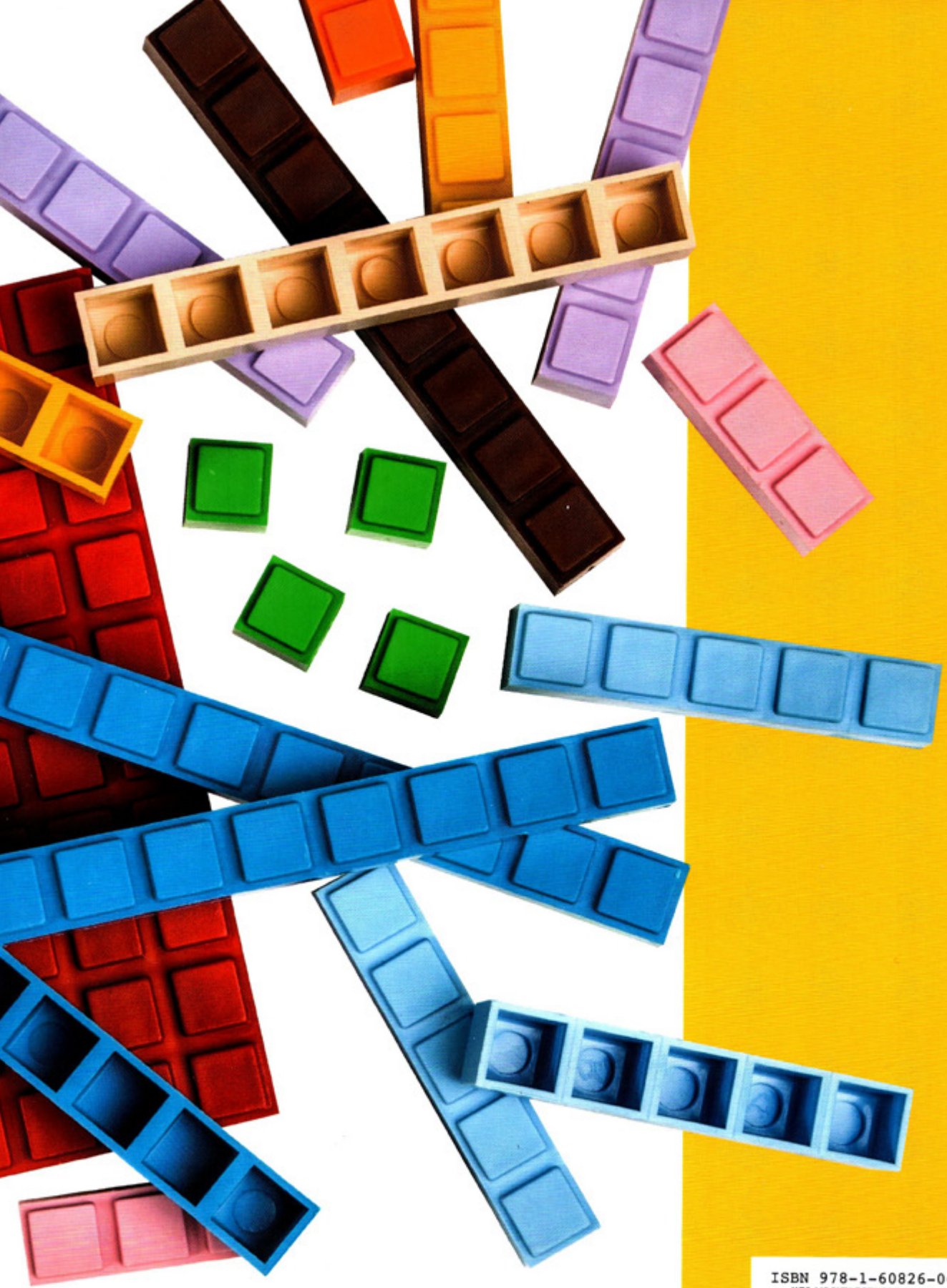

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