

# Delta

## Lesson 8

- (1) Delta Instruction Manual, Lesson 8
- (2) Delta Student Text, Lesson 8
- (3) Delta Test Booklet, Test 8
- (4) Delta Instruction Manual, Lesson 8 Solutions

In Delta Level, Division is presented as the inverse of multiplication. Single-digit division facts are learned and the concepts of division and place value are applied when solving long division problems.

These Delta Sample Pages will give you an idea of Math-U-See's unique method of instruction. However, the cornerstone of Math-U-See's success in teaching Division and other topics is our multi-sensory approach to maths instruction. Integrated Manipulative Blocks and Lesson-by-Lesson DVDs are used in every lesson throughout the Delta Level to incorporate kinaesthetic, visual and auditory learning.

If you believe that Delta is the level for your student to begin, please confirm this by completing our free online placement tests.

To Your Success!!



## LESSON 8

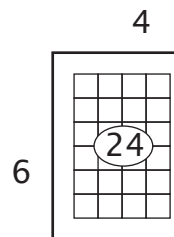
# Division by 6

Notice that all the multiples of six are even numbers. Notice also that when you add the digits of the multiples, they add up to three or a multiple of three. In  $6 \times 7 = 42$ , 42 is an even number and  $4 + 2 = 6$ , which is a multiple of three. Carefully observe the student's progress and move to the next lesson only when you are satisfied with his or her mastery.

### Example 1

$$6 \begin{array}{l} \uparrow \\ \overline{)24} \end{array} \begin{array}{l} ? \\ \longrightarrow \end{array} \quad \frac{24}{6} = \quad 24 \div 6 =$$

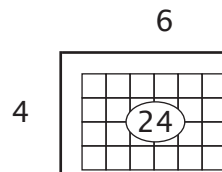
1. "What times six is equal to 24?"
2. "Six times what is equal to 24?"
3. "How many sixes can I count out of 24?"
4. "24 divided by six equals what number?"



### Example 2

$$4 \begin{array}{l} \uparrow \\ \overline{)24} \end{array} \begin{array}{l} ? \\ \longrightarrow \end{array} \quad \frac{24}{4} = \quad 24 \div 4 =$$

1. "What times four is equal to 24?"
2. "Four times what is equal to 24?"
3. "How many fours can I count out of 24?"
4. "24 divided by four equals what number?"



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

LESSON PRACTICE

8A

Answer the questions.

1. How many sixes can you count out of eighteen? \_\_\_\_\_

2. How many sixes can you count out of fifty-four? \_\_\_\_\_

3. How many sixes can you count out of twelve? \_\_\_\_\_

4. How many sixes can you count out of sixty? \_\_\_\_\_

Divide.

5.  $6 \overline{) 12}$

6.  $6 \overline{) 6}$

7.  $6 \overline{) 24}$

8.  $6 \overline{) 36}$

9.  $6 \overline{) 42}$

10.  $6 \overline{) 18}$

11.  $60 \div 6 = \underline{\quad}$

12.  $24 \div 6 = \underline{\quad}$

13.  $42 \div 6 = \underline{\quad}$

14.  $\frac{54}{6} = \underline{\quad}$

15.  $\frac{30}{6} = \underline{\quad}$

16.  $\frac{48}{6} = \underline{\quad}$

17. How many ants are present if there are 24 legs?  
(Ants have six legs each.)  $\underline{\quad}$

18. How much must Dana earn every day in order to earn \$30 in  
six days?  $\underline{\quad}$

Answer the questions.

1. How many sixes can you count out of thirty? \_\_\_\_\_
2. How many sixes can you count out of six? \_\_\_\_\_
3. How many sixes can you count out of twenty-four? \_\_\_\_\_
4. How many sixes can you count out of forty-eight? \_\_\_\_\_

Divide.

5.  $6 \overline{) 36}$

6.  $6 \overline{) 60}$

7.  $6 \overline{) 30}$

8.  $6 \overline{) 18}$

9.  $6 \overline{) 54}$

10.  $6 \overline{) 42}$

11.  $6 \div 6 = \underline{\quad}$

12.  $24 \div 6 = \underline{\quad}$

13.  $18 \div 6 = \underline{\quad}$

14.  $\frac{30}{6} = \underline{\quad}$

15.  $\frac{48}{6} = \underline{\quad}$

16.  $\frac{12}{6} = \underline{\quad}$

17. If it took Marie six minutes to play a song on her harp, how many songs could she play in one hour? (1 hour = 60 minutes)

18. Roger earned \$54 in six hours. How much did he earn each hour?

LESSON PRACTICE

8C

Answer the questions.

1. How many sixes can you count out of fifty-four? \_\_\_\_\_
2. How many sixes can you count out of thirty-six? \_\_\_\_\_
3. How many sixes can you count out of sixty? \_\_\_\_\_
4. How many sixes can you count out of forty-two? \_\_\_\_\_

Divide.

5.  $6 \overline{) 18}$

6.  $6 \overline{) 54}$

7.  $6 \overline{) 6}$

8.  $6 \overline{) 30}$

9.  $6 \overline{) 12}$

10.  $6 \overline{) 24}$



11.  $42 \div 6 = \underline{\quad}$

12.  $36 \div 6 = \underline{\quad}$

13.  $48 \div 6 = \underline{\quad}$

14.  $\frac{60}{6} = \underline{\quad}$

15.  $\frac{54}{6} = \underline{\quad}$

16.  $\frac{12}{6} = \underline{\quad}$

17. Shane has \$48 to spend on Christmas gifts for six of his friends. How much will he be able to spend on each friend?

18. Martin cut down a tree that was 18 metres tall. If he saws it into six equal lengths, how many metres long will each piece be?

How many one-metre lengths can he cut from each piece?

## SYSTEMATIC REVIEW

Divide.

1.  $6 \overline{) 18}$

2.  $6 \overline{) 42}$

3.  $6 \overline{) 54}$

4.  $3 \overline{) 24}$

5.  $5 \overline{) 25}$

6.  $2 \overline{) 18}$

7.  $9 \overline{) 54}$

8.  $10 \overline{) 60}$

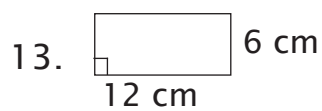
9.  $48 \div 6 = \underline{\hspace{2cm}}$

10.  $72 \div 9 = \underline{\hspace{2cm}}$

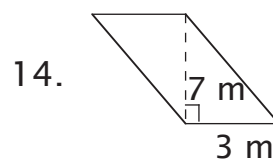
11.  $\frac{21}{3} = \underline{\hspace{2cm}}$

12.  $\frac{35}{5} = \underline{\hspace{2cm}}$

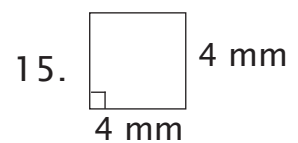
Find the area.



A =           



A =           



A =



QUICK REVIEW

Place-value notation can be used to check your work when multiplying. Be sure to place each “carry” in the proper column. Study the example.

EXAMPLE

$$\begin{array}{r}
 14 \\
 \times 17 \\
 \hline
 \textcircled{2} \\
 \textcircled{1} 78 \\
 14 \\
 \hline
 238
 \end{array}$$

$$\begin{array}{r}
 10 + 4 \\
 \times 10 + 7 \\
 \hline
 \textcircled{20} \\
 \textcircled{100} \quad 70 + 8 \\
 100 + 40 \\
 \hline
 200 + 30 + 8
 \end{array}$$

Multiply. Check your work with place-value notation.

16. 
$$\begin{array}{r}
 23 \\
 \times 36 \\
 \hline
 \end{array}$$

17. 
$$\begin{array}{r}
 78 \\
 \times 34 \\
 \hline
 \end{array}$$

18. 
$$\begin{array}{r}
 65 \\
 \times 15 \\
 \hline
 \end{array}$$

19. Each of the 12 white mice had 15 babies. How many baby mice is that? \_\_\_\_\_
20. The area of a rectangle is 45 square metres and the area of a parallelogram is 61 square metres. What is the difference between their areas? \_\_\_\_\_
21. Sophie bought 36 balls of wool. If she uses six balls for each jumper, how many jumpers can she make? \_\_\_\_\_
22. Kevin earned \$39 yesterday and \$28 today. How much did he earn altogether? \_\_\_\_\_

## SYSTEMATIC REVIEW

Divide.

1.  $6 \overline{) 12}$

2.  $6 \overline{) 60}$

3.  $6 \overline{) 42}$

4.  $6 \overline{) 24}$

5.  $9 \overline{) 27}$

6.  $5 \overline{) 40}$

7.  $10 \overline{) 20}$

8.  $3 \overline{) 12}$

9.  $15 \div 3 = \underline{\quad}$

10.  $30 \div 6 = \underline{\quad}$

11.  $\frac{6}{6} = \underline{\quad}$

12.  $\frac{12}{2} = \underline{\quad}$

Add or subtract.

13. 
$$\begin{array}{r} 13 \\ + 19 \\ \hline \end{array}$$

14. 
$$\begin{array}{r} 28 \\ + 49 \\ \hline \end{array}$$

15. 
$$\begin{array}{r} 72 \\ - 26 \\ \hline \end{array}$$

16. 
$$\begin{array}{r} 47 \\ - 38 \\ \hline \end{array}$$

Multiply. Check your work with place-value notation.

$$\begin{array}{r} 17. \quad 45 \\ \times 22 \\ \hline \end{array}$$

$$\begin{array}{r} 18. \quad 16 \\ \times 14 \\ \hline \end{array}$$

$$\begin{array}{r} 19. \quad 39 \\ \times 5 \\ \hline \end{array}$$

20. Don made 30 litres of apple juice. He put in in three-litre bottles. How many bottles does he need? \_\_\_\_\_

If he sells the jars for \$6 each, how much will he earn? \_\_\_\_\_

21. A parallelogram has a base of 4 cm and a height of 10 mm. Change the millimetres to centimetres and find the area. \_\_\_\_\_

22. Paul drove 46 kilometres this morning and 28 kilometres this afternoon. How many kilometres did he drive today? \_\_\_\_\_

SYSTEMATIC REVIEW

Divide.

1.  $6 \overline{)48}$

2.  $6 \overline{)18}$

3.  $6 \overline{)12}$

4.  $6 \overline{)36}$

5.  $9 \overline{)72}$

6.  $6 \overline{)54}$

7.  $3 \overline{)27}$

8.  $5 \overline{)45}$

9.  $70 \div 10 = \underline{\quad}$

10.  $16 \div 2 = \underline{\quad}$

11.  $\frac{42}{6} = \underline{\quad}$

12.  $\frac{60}{6} = \underline{\quad}$

Add or subtract.

13. 
$$\begin{array}{r} 85 \\ + 18 \\ \hline \end{array}$$

14. 
$$\begin{array}{r} 47 \\ - 38 \\ \hline \end{array}$$

15. 
$$\begin{array}{r} 49 \\ + 21 \\ \hline \end{array}$$

16. 
$$\begin{array}{r} 64 \\ - 25 \\ \hline \end{array}$$

Multiply. Check your work with place value-notation.

$$\begin{array}{r} 17. \quad 33 \\ \times 24 \\ \hline \end{array}$$

$$\begin{array}{r} 18. \quad 44 \\ \times 14 \\ \hline \end{array}$$

$$\begin{array}{r} 19. \quad 15 \\ \times 15 \\ \hline \end{array}$$

20. Twenty-four people are lined up for a ride at the fair. If six people can ride at one time, how many turns will be needed to give everyone a ride? \_\_\_\_\_
21. Mr. Rich made \$35 an hour. If he worked for 14 hours, how much did he earn? \_\_\_\_\_
22. A parallelogram has an area of 42 square metres. If the height is six metres, what is the length of the base? (divide) \_\_\_\_\_

Divide.

1.  $6 \overline{)12}$

2.  $6 \overline{)24}$

3.  $6 \overline{)54}$

4.  $6 \overline{)30}$

5.  $6 \overline{)42}$

6.  $6 \overline{)48}$

7.  $6 \overline{)18}$

8.  $6 \overline{)36}$

9.  $72 \div 9 = \underline{\quad}$

10.  $20 \div 5 = \underline{\quad}$

11.  $\frac{8}{2} = \underline{\quad}$

12.  $\frac{27}{3} = \underline{\quad}$



Add or subtract.

$$13. \quad \begin{array}{r} 23 \\ - 5 \\ \hline \end{array}$$

$$14. \quad \begin{array}{r} 72 \\ + 19 \\ \hline \end{array}$$

$$15. \quad \begin{array}{r} 53 \\ - 45 \\ \hline \end{array}$$

Multiply.

$$16. \quad \begin{array}{r} 22 \\ \times 13 \\ \hline \end{array}$$

$$17. \quad \begin{array}{r} 45 \\ \times 24 \\ \hline \end{array}$$

$$18. \quad \begin{array}{r} 16 \\ \times 37 \\ \hline \end{array}$$

19. Jeremy was bored, so he counted people's feet as they walked by. If he counted 20 feet, how many people had gone by? \_\_\_\_\_
20. A parallelogram has an area of 36 square metres. If the height is six metres, what is the length of the base? \_\_\_\_\_

8.  $25 \div 5 = \underline{5}$
9.  $14 \div 2 = \underline{7}$
10.  $8 \div 1 = \underline{8}$
11.  $\frac{81}{9} = \underline{9}$
12.  $\frac{21}{3} = \underline{7}$
13.  $4 \times \underline{6} = 24$
14.  $6 \times \underline{10} = 60$
15.  $6 \times \underline{7} = 42$
16.  $4 \times \underline{7} = 28$
17. 
$$\begin{array}{r} 71 \\ +62 \\ \hline 133 \end{array}$$
18. 
$$\begin{array}{r} 34 \cancel{1}3 \\ - 25 \\ \hline 18 \end{array}$$
19. 
$$\begin{array}{r} 92 \\ +11 \\ \hline 103 \end{array}$$
20. 
$$\begin{array}{r} 1 \\ 57 \\ +46 \\ \hline 103 \end{array}$$
21. parallel
22.  $5 \times 3 = 15$  sq m

### Systematic Review 7F

1.  $6 \times 7 = 42$  sq m
2.  $3 \times 8 = 24$  sq cm
3.  $10 \times 9 = 90$  sq m
4.  $3 \times 3 = 9$  sq km
5.  $27 \div 9 = \underline{3}$
6.  $15 \div 3 = \underline{5}$
7.  $30 \div 5 = \underline{6}$
8.  $16 \div 2 = \underline{8}$
9.  $72 \div 9 = \underline{8}$
10.  $90 \div 10 = \underline{9}$
11.  $\frac{20}{2} = \underline{10}$
12.  $\frac{45}{9} = \underline{5}$
13.  $4 \times \underline{8} = 32$
14.  $6 \times \underline{8} = 48$
15.  $6 \times \underline{6} = 36$
16.  $4 \times \underline{4} = 16$

17. 
$$\begin{array}{r} 1\cancel{2}1 \\ - 9 \\ \hline 12 \end{array}$$
18. 
$$\begin{array}{r} 1 \\ 76 \\ +54 \\ \hline 130 \end{array}$$
19. 
$$\begin{array}{r} 33 \\ +45 \\ \hline 78 \end{array}$$
20. 
$$\begin{array}{r} 5\cancel{6}14 \\ - 25 \\ \hline 39 \end{array}$$
21. 5 cm 5 mm or 55 mm
22.  $30 - 16 = 14$  books

### Lesson Practice 8A

1. 6,12,18;3
2. 6,12,18,24,30,36,42,48,54;9
3. 6,12;2
4. 6,12,18,24,30,36,42,48,54,60;10
5.  $12 \div 6 = \underline{2}$
6.  $6 \div 6 = \underline{1}$
7.  $24 \div 6 = \underline{4}$
8.  $36 \div 6 = \underline{6}$
9.  $42 \div 6 = \underline{7}$
10.  $18 \div 6 = \underline{3}$
11.  $60 \div 6 = \underline{10}$
12.  $24 \div 6 = \underline{4}$
13.  $42 \div 6 = \underline{7}$
14.  $\frac{54}{6} = \underline{9}$
15.  $\frac{30}{6} = \underline{5}$
16.  $\frac{48}{6} = \underline{8}$
17.  $24 \div 6 = 4$  ants
18.  $\$30 \div 6 = \$5$  a day

### Lesson Practice 8B

1. 6,12,18,24,30;5
2. 6;1
3. 6,12,18,24;4
4. 6,12,18,24,30,36,42,48;8
5.  $36 \div 6 = \underline{6}$
6.  $60 \div 6 = \underline{10}$
7.  $30 \div 6 = \underline{5}$
8.  $18 \div 6 = \underline{3}$
9.  $54 \div 6 = \underline{9}$
10.  $42 \div 6 = \underline{7}$
11.  $6 \div 6 = \underline{1}$
12.  $24 \div 6 = \underline{4}$
13.  $18 \div 6 = \underline{3}$
14.  $\frac{30}{6} = \underline{5}$
15.  $\frac{48}{6} = \underline{8}$
16.  $\frac{12}{6} = \underline{2}$
17.  $60 \div 6 = 10$  songs
18.  $\$54 \div 6 = \$9$  each hour

### Lesson Practice 8C

1. 6,12,18,24,30,36,42,48,54;9
2. 6,12,18,24,30,36;6
3. 6,12,18,24,30,36,42,48,54,60;10
4. 6,12,18,24,30,36,42;7
5.  $18 \div 6 = \underline{3}$
6.  $54 \div 6 = \underline{9}$
7.  $6 \div 6 = \underline{1}$
8.  $30 \div 6 = \underline{5}$
9.  $12 \div 6 = \underline{2}$
10.  $24 \div 6 = \underline{4}$
11.  $42 \div 6 = \underline{7}$
12.  $36 \div 6 = \underline{6}$
13.  $48 \div 6 = \underline{8}$
14.  $\frac{60}{6} = \underline{10}$
15.  $\frac{54}{6} = \underline{9}$
16.  $\frac{12}{6} = \underline{2}$
17.  $\$48 \div 6 = \$8$  per friend
18.  $18 \div 6 = 3$  metres  
 $3 \div 3 = 1$  length

### Systematic Review 8D

1.  $18 \div 6 = \underline{3}$
2.  $42 \div 6 = \underline{7}$
3.  $54 \div 6 = \underline{9}$
4.  $24 \div 3 = \underline{8}$
5.  $25 \div 5 = \underline{5}$
6.  $18 \div 2 = \underline{9}$
7.  $54 \div 9 = \underline{6}$
8.  $60 \div 10 = \underline{6}$
9.  $48 \div 6 = \underline{8}$
10.  $72 \div 9 = \underline{8}$
11.  $\frac{21}{3} = \underline{7}$
12.  $\frac{35}{5} = \underline{7}$
13.  $12 \times 6 = 72$  sq cm
14.  $7 \times 3 = 21$  sq m
15.  $4 \times 4 = 16$  sq mm
16. 
$$\begin{array}{r} 23 \quad 20+3 \\ \times 36 \quad \times 30+6 \\ \hline 11 \quad 100 \quad 10 \\ 128 \quad 100+20+8 \\ 69 \quad 600+90+ \\ \hline 828 \quad 800+20+8 \end{array}$$
17. 
$$\begin{array}{r} 78 \quad 70+8 \\ \times 34 \quad \times 30+4 \\ \hline 1 \quad 100 \quad 200 \quad 30 \\ 23 \quad 200 \quad +80+2 \\ 282 \quad 2000+ \quad 100 \quad +40 \\ \hline 214 \quad 2000+ \quad 600 \quad +50+2 \\ 2652 \end{array}$$
18. 
$$\begin{array}{r} 65 \quad 60+5 \\ \times 15 \quad \times 10+5 \\ \hline 2 \quad 20 \\ 305 \quad 300+00+5 \\ 65 \quad 600+50+ \\ \hline 975 \quad 900+70+5 \end{array}$$
19.  $12 \times 15 = 180$  baby mice
20.  $61 - 45 = 16$  sq m
21.  $36 \div 6 = 6$  jumpers
22.  $\$39 + \$28 = \$67$

### Systematic Review 8E

1.  $12 \div 6 = \underline{2}$
2.  $60 \div 6 = \underline{10}$
3.  $42 \div 6 = \underline{7}$
4.  $24 \div 6 = \underline{4}$
5.  $27 \div 9 = \underline{3}$
6.  $40 \div 5 = \underline{8}$
7.  $20 \div 10 = \underline{2}$
8.  $12 \div 3 = \underline{4}$
9.  $15 \div 3 = \underline{5}$
10.  $30 \div 6 = \underline{5}$
11.  $\frac{6}{6} = \underline{1}$
12.  $\frac{12}{2} = \underline{6}$
13. 
$$\begin{array}{r} 1 \\ 13 \\ +19 \\ \hline 32 \end{array}$$
14. 
$$\begin{array}{r} 1 \\ 28 \\ +49 \\ \hline 77 \end{array}$$
15. 
$$\begin{array}{r} 6\cancel{7} \ 12 \\ - 26 \\ \hline 46 \end{array}$$
16. 
$$\begin{array}{r} 3\cancel{4} \ 17 \\ - 38 \\ \hline 9 \end{array}$$
17. 
$$\begin{array}{r} 45 \quad 40+5 \\ \times 22 \quad \times 20+2 \\ \hline 1 \quad 10 \\ 180 \ 100 \ 80+0 \\ 80 \ 800+00+ \\ \hline 990 \ 900+90+0 \end{array}$$
18. 
$$\begin{array}{r} 16 \quad 10+6 \\ \times 14 \quad \times 10+4 \\ \hline 2 \quad 20 \\ 144 \ 100+40+4 \\ 16 \ 100 \ 60+ \\ \hline 224 \ 200+20+4 \end{array}$$
19. 
$$\begin{array}{r} 39 \quad 30+9 \\ \times 5 \quad \times 5 \\ \hline 14 \ 100 \ 40 \\ 55 \quad +50+5 \\ \hline 195 \ 100+90+5 \end{array}$$
20.  $30 \div 3 = 10$  bottles  
 $R6 \times 10 = R60$

21.  $10 \text{ mm} = 1 \text{ cm}$   
 $4 \times 1 = 4 \text{ sq cm}$
22.  $46 + 28 = 74 \text{ km}$

### Systematic Review 8F

1.  $48 \div 6 = \underline{8}$
2.  $18 \div 6 = \underline{3}$
3.  $12 \div 6 = \underline{2}$
4.  $36 \div 6 = \underline{6}$
5.  $72 \div 9 = \underline{8}$
6.  $54 \div 6 = \underline{9}$
7.  $27 \div 3 = \underline{9}$
8.  $45 \div 5 = \underline{9}$
9.  $70 \div 10 = \underline{7}$
10.  $16 \div 2 = \underline{8}$
11.  $\frac{42}{6} = \underline{7}$
12.  $\frac{60}{6} = \underline{10}$
13. 
$$\begin{array}{r} 185 \\ +18 \\ \hline 103 \end{array}$$
14. 
$$\begin{array}{r} 3\cancel{4} \ 17 \\ - 38 \\ \hline 9 \end{array}$$
15. 
$$\begin{array}{r} 149 \\ +21 \\ \hline 70 \end{array}$$
16. 
$$\begin{array}{r} 5\cancel{6} \ 14 \\ - 25 \\ \hline 39 \end{array}$$
17. 
$$\begin{array}{r} 33 \quad 30+3 \\ \times 24 \quad \times 20+4 \\ \hline 1 \quad 10 \\ 122 \ 100+20+2 \\ 66 \ 600+60+ \\ \hline 792 \ 700+90+2 \end{array}$$
18. 
$$\begin{array}{r} 44 \quad 40+4 \\ \times 14 \quad \times 10+4 \\ \hline 11 \ 100 \ 10 \\ 166 \ 100+60+6 \\ 44 \ 400+40+ \\ \hline 616 \ 600+10+6 \end{array}$$

19. 
$$\begin{array}{r} 15 \\ \times 15 \\ \hline 75 \\ 150 \\ \hline 225 \end{array}$$
20.  $24 \div 6 = 4$  turns
21.  $\$35 \times 14 = \$490$
22.  $42 \div 6 = 7$  m

7.  $2 \times 3 = 6$   
 $6 \div 2 = 3$  sq m
8.  $3 \times 6 = 18$   
 $18 \div 2 = 9$  sq ft
9.  $20 \div 10 = 2$  cm  
 $40 \div 10 = 4$  cm
10.  $4 \times 2 = 8$   
 $8 \div 2 = 4$  sq cm

### Lesson Practice 9A

- done
- $4 \times 4 = 16$   
 $16 \div 2 = 8$  sq m
- $2 \times 7 = 14$   
 $14 \div 2 = 7$  sq km
- $3 \times 6 = 18$   
 $18 \div 2 = 9$  sq cm
- $4 \times 5 = 20$   
 $20 \div 2 = 10$  sq mm
- $9 \times 2 = 18$   
 $18 \div 2 = 9$  sq cm
- $8 \times 2 = 16$   
 $16 \div 2 = 8$  sq m
- $1 \times 2 = 2$   
 $2 \div 2 = 1$  sq ft
- $2 \times 2 = 4$   
 $4 \div 2 = 2$  sq km
- $2 \times 4 = 8$   
 $8 \div 2 = 4$  sq cm

### Lesson Practice 9B

- $3 \times 4 = 12$   
 $12 \div 2 = 6$  sq m
- $2 \times 6 = 12$   
 $12 \div 2 = 6$  sq cm
- $1 \times 8 = 8$   
 $8 \div 2 = 4$  sq km
- $2 \times 10 = 20$   
 $20 \div 2 = 10$  sq m
- $2 \times 5 = 10$   
 $10 \div 2 = 5$  sq cm
- $10 \times 1 = 10$   
 $10 \div 2 = 5$  sq cm

### Lesson Practice 9C

- $1 \times 4 = 4$   
 $4 \div 2 = 2$  sq m
- $2 \times 5 = 10$   
 $10 \div 2 = 5$  sq cm
- $2 \times 9 = 18$   
 $18 \div 2 = 9$  sq km
- $4 \times 4 = 16$   
 $16 \div 2 = 8$  sq mm
- $2 \times 8 = 16$   
 $16 \div 2 = 8$  sq m
- $2 \times 4 = 8$   
 $8 \div 2 = 4$  sq cm
- $2 \times 2 = 4$   
 $4 \div 2 = 2$  sq m
- $2 \times 7 = 14$   
 $14 \div 2 = 7$  sq km
- $4 \times 3 = 12$   
 $12 \div 2 = 6$  sq m  
so 6 plants
- $6 \times 3 = 18$   
 $18 \div 2 = 9$  sq m

### Systematic Review 9D

- $1 \times 4 = 4$   
 $4 \div 2 = 2$  sq m
- $2 \times 3 = 6$   
 $6 \div 2 = 3$  sq cm
- $5 \times 7 = 35$  sq mm
- $36 \div 6 = \underline{6}$
- $42 \div 6 = \underline{7}$
- $18 \div 6 = \underline{3}$

17.  $45 \div 9 = 5$
18.  $14 \div 2 = 7$
19.  $25 \div 5 = 5$
20.  $18 \div 2 = 9$
21.  $50 \div 5 = 10$
22.  $9 \div 3 = 3$
23.  $9 \div 9 = 1$
24.  $27 \div 3 = 9$
25.  $90 \div 10 = 9$
26.  $15 \div 3 = 5$
27.  $12 \div 2 = 6$
28.  $4 \div 1 = 4$
29.  $40 \div 5 = 8$
30.  $54 \div 9 = 6$
31.  $70 \div 10 = 7$
32.  $15 \div 5 = 3$
33.  $45 \div 5 = 9$
34.  $30 \div 3 = 10$
35.  $5 \div 1 = 5$
36.  $100 \div 10 = 10$
37.  $9 \div 1 = 9$
38.  $20 \div 5 = 4$
39.  $72 \div 9 = 8$
40.  $20 \div 2 = 10$
41.  $6 \div 3 = 2$
42.  $10 \div 5 = 2$
43.  $18 \div 9 = 2$
44.  $35 \div 5 = 7$
45.  $8 \div 2 = 4$
46.  $80 \div 10 = 8$
47.  $8 \div 1 = 8$
48.  $3 \div 3 = 1$
49. 
$$\begin{array}{r} 156 \\ + 39 \\ \hline 95 \end{array}$$
50. 
$$\begin{array}{r} 5612 \\ - 25 \\ \hline 37 \end{array}$$
51. 
$$\begin{array}{r} 781 \\ - 46 \\ \hline 35 \end{array}$$
52.  $\parallel$
53.  $\perp$
54.  $8 \times 9 = 72$  sq m
55. 10 mm

**Test 7**

1.  $9 \times 10 = 90$  sq m
2.  $3 \times 7 = 21$  sq cm
3.  $36 \div 9 = 4$
4.  $18 \div 3 = 6$
5.  $20 \div 5 = 4$
6.  $12 \div 2 = 6$
7.  $81 \div 9 = 9$
8.  $40 \div 10 = 4$
9.  $4 \div 2 = 2$
10.  $63 \div 9 = 7$
11.  $6 \times \underline{2} = 12$
12.  $6 \times \underline{5} = 30$
13.  $6 \times \underline{9} = 54$
14.  $6 \times \underline{3} = 18$
15.  $6 \times \underline{7} = 42$
16.  $6 \times \underline{8} = 48$
17.  $6 \times \underline{4} = 24$
18.  $6 \times \underline{6} = 36$
19.  $25 - 16 = 9$   
 $9 \div 3 = 3$  cages
20.  $18 - 9 = 9$  litres

**Test 8**

1.  $12 \div 6 = 2$
2.  $24 \div 6 = 4$
3.  $54 \div 6 = 9$
4.  $30 \div 6 = 5$
5.  $42 \div 6 = 7$
6.  $48 \div 6 = 8$
7.  $18 \div 6 = 3$
8.  $36 \div 6 = 6$
9.  $72 \div 9 = 8$
10.  $20 \div 5 = 4$
11.  $8 \div 2 = 4$
12.  $27 \div 3 = 9$
13. 
$$\begin{array}{r} 1213 \\ - 5 \\ \hline 18 \end{array}$$
14. 
$$\begin{array}{r} 172 \\ + 19 \\ \hline 91 \end{array}$$
15. 
$$\begin{array}{r} 4513 \\ - 45 \\ \hline 8 \end{array}$$

$$\begin{array}{r} 16. \quad 22 \\ \times 13 \\ \hline 66 \\ 22 \\ \hline 286 \end{array}$$

$$\begin{array}{r} 45 \\ \times 24 \\ \hline 12 \\ 160 \\ \hline 80 \\ 1080 \end{array}$$

$$\begin{array}{r} 18. \quad 16 \\ \times 37 \\ \hline 14 \\ 172 \\ \hline 38 \\ 592 \end{array}$$

19.  $20 \div 2 = 10$  people  
20.  $36 \div 6 = 6$  m

### Test 9

1.  $4 \times 5 = 20$   
 $20 \div 2 = 10$  sq m
2.  $7 \times 6 = 42$  sq cm
3.  $3 \times 2 = 6$   
 $6 \div 2 = 3$  sq cm
4.  $40 \div 10 = 4$
5.  $12 \div 3 = 4$
6.  $8 \div 2 = 4$
7.  $45 \div 5 = 9$
8.  $4 \times 6 = 24$
9.  $4 \times 8 = 32$
10.  $4 \times 4 = 16$
11.  $4 \times 7 = 28$

$$\begin{array}{r} 12. \quad 84 \\ \times 22 \\ \hline 168 \\ 168 \\ \hline 1848 \end{array}$$

$$\begin{array}{r} 13. \quad 43 \\ \times 35 \\ \hline 1215 \\ 129 \\ \hline 1505 \end{array}$$

$$\begin{array}{r} 14. \quad 67 \\ \times 54 \\ \hline 12 \\ 248 \\ \hline 335 \\ 3618 \end{array}$$

15.  $25 + 15 + 24 + 61 = 125$
16.  $44 + 38 + 62 + 56 + 11 = 211$
17.  $90 + 23 + 57 + 18 + 82 = 270$
18. no
19.  $25 + 16 + 18 + 32 = 91$  animals
20.  $91 \times 4 = 364$  hooves

### Test 10

1.  $8 \div 4 = 2$
2.  $32 \div 4 = 8$
3.  $16 \div 4 = 4$
4.  $12 \div 4 = 3$
5.  $28 \div 4 = 7$
6.  $20 \div 4 = 5$
7.  $36 \div 4 = 9$
8.  $24 \div 4 = 6$
9.  $18 \div 6 = 3$
10.  $42 \div 6 = 7$
11.  $30 \div 6 = 5$
12.  $48 \div 6 = 8$
13.  $71 + 34 + 59 + 26 = 190$

$$\begin{array}{r} 14. \quad 56 \overset{5}{\cancel{6}} \overset{1}{5} \\ - 39 \\ \hline 26 \end{array}$$

$$\begin{array}{r} 15. \quad 84 \\ \times 62 \\ \hline 168 \\ 2 \\ \hline 5208 \end{array}$$

16.  $5 \times 4 = 20$   
 $20 \div 2 = 10$  sq m
17.  $32 \times 25 = 800$  sq m
18.  $2 \times 5 = 10$   
 $10 \div 2 = 5$  sq km
19.  $24 \div 4 = 6$  litres
20.  $40 \div 4 = 10$  sweets