

3rd Grade Parent

Information

April 13-24

- Recommended daily math practice time: 30 minutes
- There are 5 “practice” pages – Recommendation is 1 practice page every other day.
- There is a “Unit 1 Assessment” – the answer key is at the end of the document. There are 14 items – the recommendation is complete in 1 day, check work, then correct any mistakes – try to write down why it was missed the first time around (calculation mistake, didn’t read the problem all the way through, couldn’t remember how to do it, etc.)
- There are 12 “fluency practice” pages – addition, subtraction, multiplication, and division. Recommendation is to work 15-20 problems per day from pages of your child’s choice. However, the goal is practice and remembering how to work problems correctly. Adjust the number of problems based on how long it takes your child to complete.
- There are 4 “Activity” pages - Recommendation is 2 “Activities” per week for 10-15 minutes each activity. These activities can be repeated for extra practice. If cutting pieces out is needed for an activity, your child may need to re-create on their own paper depending on how it prints.
- An answer key is at the end of the document for pages not easily checked by a calculator.

Additional Ideas that can be practiced daily or every other day:

- Add and subtract within 1000 – Have your child create numbers to add or subtract. Use a calculator to check.
- Continue practicing multiplication and division facts up to 12x12. Your child could create their own flash cards with a fact and a picture/array to illustrate. Another option is to write the fact families for the facts.
 - Example: $5 \times 2 = 10$; $2 \times 5 = 10$; $10 \div 2 = 5$; $10 \div 5 = 2$

**Draw parentheses around the numbers you want to multiply first.
Then find the product.**

1 $6 \times 3 \times 2$
 $6 \times (3 \times 2)$
 $6 \times 6 = 36$

Sample Student Work:
 $3 \times 2 = 6; 6 \times 6 = 36$

2 $4 \times 3 \times 3$

3 $5 \times 2 \times 8$

4 $8 \times 2 \times 4$

5 $2 \times 2 \times 7$

6 $6 \times 5 \times 2$

7 $3 \times 3 \times 7$

8 $2 \times 4 \times 5$

9 $7 \times 4 \times 2$

10 $6 \times 3 \times 3$

11 $3 \times 3 \times 10$

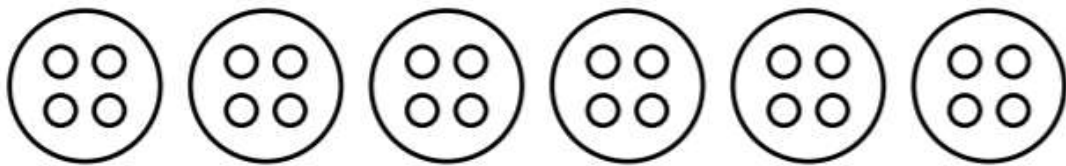
12 $2 \times 3 \times 4$

13 How did you decide which factors to group?

14 Choose one problem. Tell two ways you can group the factors. Then explain which way is easier for you to solve.

Understanding of How Multiplication and Division Are Connected

Name: _____



- 1** There are 24 marbles. Each bag has 4 marbles.

Write an equation that shows the number of bags.

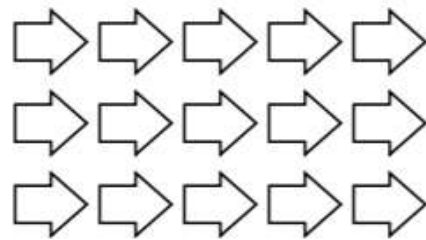
- 2** There are 24 marbles. An equal number of marbles are in 6 bags.

Write an equation that shows the number of marbles in each bag.

- 3** There are 6 bags of marbles. 4 marbles are in each bag.

Write two different equations that show the total number of marbles.

- 4** Write 2 multiplication equations and 2 division equations for this array.



Find the value of ? to complete each fact.

5 $6 \times ? = 48$

$48 \div 6 = ?$

$? =$ _____

6 $? \times 5 = 45$

$45 \div ? = 5$

$? =$ _____

7 $63 \div 9 = ?$

$? \times 9 = 63$

$? =$ _____

8 $32 \div ? = 8$

$8 \times ? = 32$

$? =$ _____

Write the missing numbers in the boxes to make each multiplication or division problem true.

$5 \times 7 = \square$

$32 \div 8 = \square$

$4 \times 7 = \square$

$27 \div \square = 9$

$\square \div 5 = 7$

$8 \times \square = 32$

$\square \div 4 = 7$

$9 \times \square = 27$

$4 \times 4 = \square$

$9 \times 6 = \square$

$6 \times 6 = \square$

$81 \div \square = 9$

$\square \div 4 = 4$

$54 \div \square = 6$

$63 \div \square = 9$

$40 \div 8 = \square$

$\square \div 8 = 6$

$56 \div \square = 8$

$45 \div 5 = \square$

$\square \div 7 = 7$

1 Write 3 possible answers for the equation $36 \div \square = \square$.

Read and solve each problem. Show your work.

1 A parking lot has 6 rows of parking spaces. There are 5 spaces in each row. How many parking spaces are in the lot?

There are _____ parking spaces.

2 Jack has 36 toy robots. He wants to display 9 on each shelf in his room. How many shelves will Jack need to display all of the robots?

Jack will need _____ shelves.

3 There are 24 dancers. The teacher has them stand in 3 equal rows. How many dancers are in each row?

There are _____ dancers in each row.

4 Emily is putting away plates. She puts 6 plates each in 3 stacks. How many plates does she put away?

Emily puts away _____ plates.

Read and solve each problem. Show your work.

- 1** Heather has 18 photographs of rockets. She wants to hang them on 3 different walls in her room. Each wall will have the same number of photographs. How many photographs will hang on each wall?

There will be _____ photographs on each wall.

- 2** There are 24 people who want to play volleyball. The coach divides the players into teams of 6. How many teams can she make?

The coach can make _____ teams.

- 3** At an art show, there are 7 groups of paintings with 6 paintings in each group. How many paintings are there in all?

There are _____ paintings.

- 4** Jasmine reads for 10 minutes each night. If she reads for 5 nights, how many minutes will she read in all?

Jasmine will read for _____ minutes.

- 5** Rhonda plants 28 tomato plants in her garden. She plants 7 tomato plants in each row. How many rows does she plant?

Rhonda plants _____ rows.

- 6** Mr. Jones buys 6 packages of pencils. There are 8 pencils in each package. How many pencils does Mr. Jones buy?

Mr. Jones buys _____ pencils.

Write the time the clock shows.

1**2****3****4**

Draw hands on the clock to show the given time.

5 16 minutes after 1**6** 7 minutes before 9

Ready® Mathematics**Unit 1 Unit Assessment****Form B****Solve the problems.**

- 1** Doug has 5 bags with 6 crackers in each bag.
Maria has 6 bags with 5 crackers in each bag.

Part A

Do Doug and Maria have the same number of crackers? Explain.

Part B

Draw two models to show how many crackers Doug and Maria each have.

- 2** Seth has 48 party favors. He puts all of the party favors into 6 bags.
Each bag has the same number of favors. How many party favors
does Seth put into each bag?

Write a division equation and a multiplication equation that you can use to
solve the problem.

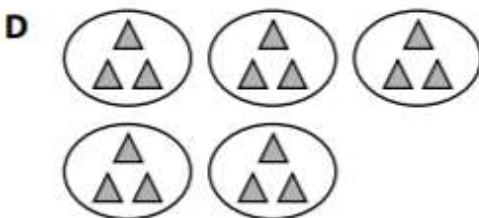
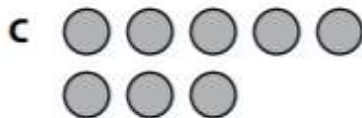
$$\underline{\quad} \div \underline{\quad} = \underline{\quad}$$
$$\underline{\quad} \times \underline{\quad} = \underline{\quad}$$



Unit 1 Unit Assessment *continued*

Form B

3 Which pictures show 5×3 ? Circle the letter for all that apply.



4 Layla uses a rule to write a number pattern. She starts with the number 4. The rest of the numbers in the pattern are even. 4, _____, _____, _____, _____

Decide whether each sentence is *True* or *False*.

a. The rule could be to multiply by 2 because the product of two even numbers is always even.

True False

b. The rule could be to add 1 because an even number plus an odd number is always odd.

True False

c. The rule could be to add 2 because an even number plus an even number is always odd.

True False

d. The rule could be to add 4 because an even number plus an even number is always even.

True False

5 Which division equations are shown by the array? Circle the letter for all that apply.

A $24 \div 8 = 3$

D $24 \div 4 = 6$

B $24 \div 6 = 4$

E $24 \div 3 = 8$

C $24 \div 2 = 12$



Unit 1 Unit Assessment *continued***Form B**

- 6** Consider the following problems.

Part A

Explain how you can use a multiplication fact to help you find the quotient in this problem. Write the quotient.

$18 \div 3 = \underline{\quad}$

Part B

Complete the fact family by writing 3 more equations that belong to it.

- 7** Write a problem that shows $42 \div 6$. Then solve.



Unit 1 Unit Assessment *continued***Form B**

- 8** Part of a multiplication table is shown below.

Part A

Fill in the missing numbers.

	0	1	2	3	4	5	6	7	8	9
5	0		10	15	20		30	35	40	
6	0	6		18		30		42		54
7	0		14		28		42		56	

Part B

Describe a pattern you see in the table.

Part C

Explain why the pattern works the way it does.



Unit 1 Unit Assessment *continued***Form B**

- 9** Mei has 4 plates. Each plate has 6 cookies on it. Each cookie has 5 raisins in it. Which equation can be used to find the total number of raisins in all of the cookies?

Choose *Yes* or *No* for each equation.

a. $4 \times 6 \times 5 = 15$ Yes No

b. $4 \times 6 \times 5 = 4 \times 30$ Yes No

c. $4 \times 6 \times 5 = 24 \times 30$ Yes No

d. $4 \times 6 \times 5 = 6 \times 20$ Yes No

e. $4 \times 6 \times 5 = 24 \times 5$ Yes No

- 10** Which equations belong to the same fact family as $36 \div 9 = 4$? Circle the letter for all that apply.

A $36 \div \square = 9$

B $\square \times 9 = 36$

C $6 \times \square = 36$

D $4 \times 36 = \square$

E $4 \times \square = 36$

- 11** Jessica has 56 arcade tickets to give away. She gives them all to her 8 friends who share them equally. How many tickets does each friend get?

Show your work.

Each friend gets _____ arcade tickets.



Unit 1 Unit Assessment *continued***Form B**

- 12** Which problem can be solved using the division equation $30 \div 5 = 6$?
- A** Jami started with 30 apples. After 5 days she had 6 left. How many apples did she eat?
 - B** Jami bought 30 bags of apples. Each bag had 5 apples in it. How many apples did Jami buy?
 - C** Jami bought 30 apples on sale. She put them into 5 bowls with an equal number in each bowl. How many apples are in each bowl?
 - D** Jami used 6 apples to make a pie. She used 5 apples in a smoothie. How many apples did Jami use in all?
- 13** Ava bought 8 cans of tennis balls. Each can contains 3 balls. How many tennis balls does she have in all? Show how to break apart one of the numbers to make the problem easier to solve. Draw a model and show the math equations you used.
- _____
- _____
- _____
- 14** Paddle boats at the pond can each hold 5 people. When all 7 of the boats are full, how many people are on the boats?

Show your work.



Add. Regroup if necessary.

Form A

$$\begin{array}{r} \mathbf{1} \quad 324 \\ + 135 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{2} \quad 548 \\ + 314 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{3} \quad 253 \\ + 452 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{4} \quad 172 \\ + 127 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{5} \quad 811 \\ + 96 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{6} \quad 257 \\ + 325 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{7} \quad 136 \\ + 61 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{8} \quad 564 \\ + 261 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{9} \quad 136 \\ + 435 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{10} \quad 214 \\ + 214 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{11} \quad 139 \\ + 255 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{12} \quad 672 \\ + 121 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{13} \quad 188 \\ + 481 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{14} \quad 409 \\ + 42 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{15} \quad 246 \\ + 138 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{16} \quad 567 \\ + 321 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{17} \quad 131 \\ + 182 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{18} \quad 412 \\ + 503 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{19} \quad 219 \\ + 229 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{20} \quad 358 \\ + 436 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{21} \quad 443 \\ + 547 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{22} \quad 613 \\ + 43 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{23} \quad 172 \\ + 271 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{24} \quad 228 \\ + 355 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{25} \quad 539 \\ + 190 \\ \hline \end{array}$$



Add. Regroup twice if necessary.

Form A

$$\begin{array}{r} \mathbf{1} \quad 507 \\ + 145 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{2} \quad 342 \\ + 647 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{3} \quad 184 \\ + 248 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{4} \quad 575 \\ + 272 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{5} \quad 186 \\ + 365 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{6} \quad 425 \\ + 175 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{7} \quad 539 \\ + 374 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{8} \quad 246 \\ + 37 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{9} \quad 112 \\ + 545 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{10} \quad 443 \\ + 263 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{11} \quad 152 \\ + 114 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{12} \quad 412 \\ + 432 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{13} \quad 253 \\ + 382 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{14} \quad 248 \\ + 248 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{15} \quad 626 \\ + 89 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{16} \quad 357 \\ + 368 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{17} \quad 404 \\ + 107 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{18} \quad 137 \\ + 42 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{19} \quad 119 \\ + 219 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{20} \quad 245 \\ + 254 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{21} \quad 188 \\ + 336 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{22} \quad 631 \\ + 283 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{23} \quad 192 \\ + 132 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{24} \quad 252 \\ + 146 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{25} \quad 419 \\ + 382 \\ \hline \end{array}$$

Subtract. Regroup if necessary.

Form A

$$\begin{array}{r} 1 \quad 525 \\ - 175 \\ \hline \end{array}$$

$$\begin{array}{r} 2 \quad 463 \\ - 251 \\ \hline \end{array}$$

$$\begin{array}{r} 3 \quad 317 \\ - 224 \\ \hline \end{array}$$

$$\begin{array}{r} 4 \quad 692 \\ - 188 \\ \hline \end{array}$$

$$\begin{array}{r} 5 \quad 777 \\ - 543 \\ \hline \end{array}$$

$$\begin{array}{r} 6 \quad 316 \\ - 208 \\ \hline \end{array}$$

$$\begin{array}{r} 7 \quad 558 \\ - 62 \\ \hline \end{array}$$

$$\begin{array}{r} 8 \quad 634 \\ - 217 \\ \hline \end{array}$$

$$\begin{array}{r} 9 \quad 986 \\ - 410 \\ \hline \end{array}$$

$$\begin{array}{r} 10 \quad 376 \\ - 158 \\ \hline \end{array}$$

$$\begin{array}{r} 11 \quad 615 \\ - 232 \\ \hline \end{array}$$

$$\begin{array}{r} 12 \quad 363 \\ - 131 \\ \hline \end{array}$$

$$\begin{array}{r} 13 \quad 820 \\ - 450 \\ \hline \end{array}$$

$$\begin{array}{r} 14 \quad 755 \\ - 728 \\ \hline \end{array}$$

$$\begin{array}{r} 15 \quad 219 \\ - 158 \\ \hline \end{array}$$

$$\begin{array}{r} 16 \quad 199 \\ - 37 \\ \hline \end{array}$$

$$\begin{array}{r} 17 \quad 548 \\ - 514 \\ \hline \end{array}$$

$$\begin{array}{r} 18 \quad 560 \\ - 225 \\ \hline \end{array}$$

$$\begin{array}{r} 19 \quad 463 \\ - 217 \\ \hline \end{array}$$

$$\begin{array}{r} 20 \quad 689 \\ - 299 \\ \hline \end{array}$$

$$\begin{array}{r} 21 \quad 848 \\ - 364 \\ \hline \end{array}$$

$$\begin{array}{r} 22 \quad 394 \\ - 145 \\ \hline \end{array}$$

$$\begin{array}{r} 23 \quad 870 \\ - 220 \\ \hline \end{array}$$

$$\begin{array}{r} 24 \quad 285 \\ - 28 \\ \hline \end{array}$$

$$\begin{array}{r} 25 \quad 426 \\ - 193 \\ \hline \end{array}$$



Subtract. Regroup twice if necessary.

Form A

$$\begin{array}{r} \mathbf{1} \quad 228 \\ - 194 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{2} \quad 615 \\ - 306 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{3} \quad 321 \\ - 76 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{4} \quad 426 \\ - 115 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{5} \quad 846 \\ - 275 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{6} \quad 454 \\ - 127 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{7} \quad 987 \\ - 36 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{8} \quad 341 \\ - 149 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{9} \quad 510 \\ - 250 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{10} \quad 258 \\ - 236 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{11} \quad 535 \\ - 137 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{12} \quad 466 \\ - 383 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{13} \quad 652 \\ - 167 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{14} \quad 342 \\ - 132 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{15} \quad 573 \\ - 37 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{16} \quad 270 \\ - 244 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{17} \quad 751 \\ - 283 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{18} \quad 305 \\ - 103 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{19} \quad 486 \\ - 93 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{20} \quad 765 \\ - 345 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{21} \quad 588 \\ - 370 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{22} \quad 329 \\ - 152 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{23} \quad 142 \\ - 66 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{24} \quad 435 \\ - 219 \\ \hline \end{array}$$

$$\begin{array}{r} \mathbf{25} \quad 853 \\ - 299 \\ \hline \end{array}$$



Practice facts up to 5×5 .

Form A

1 $2 \times 2 =$ _____

2 $5 \times 4 =$ _____

3 $1 \times 3 =$ _____

4 $5 \times 3 =$ _____

5 $3 \times 3 =$ _____

6 $4 \times 2 =$ _____

7 $5 \times 5 =$ _____

8 $2 \times 3 =$ _____

9 $3 \times 4 =$ _____

10 $2 \times 5 =$ _____

11 $3 \times 2 =$ _____

12 $4 \times 5 =$ _____

13 $3 \times 4 =$ _____

14 $0 \times 0 =$ _____

15 $5 \times 1 =$ _____

16 $4 \times 4 =$ _____

17 $4 \times 5 =$ _____

18 $5 \times 5 =$ _____

19 $2 \times 4 =$ _____

20 $4 \times 4 =$ _____

21 $3 \times 3 =$ _____

22 $5 \times 4 =$ _____

23 $4 \times 3 =$ _____

24 $2 \times 2 =$ _____

25 $5 \times 3 =$ _____

26 $4 \times 4 =$ _____

27 $3 \times 5 =$ _____

28 $2 \times 3 =$ _____

29 $4 \times 3 =$ _____

30 $2 \times 5 =$ _____

31 $4 \times 2 =$ _____

32 $3 \times 5 =$ _____

33 $5 \times 2 =$ _____

34 $4 \times 5 =$ _____

35 $0 \times 2 =$ _____

36 $4 \times 3 =$ _____

37 $2 \times 4 =$ _____

38 $5 \times 2 =$ _____

39 $3 \times 2 =$ _____

40 $4 \times 0 =$ _____

41 $5 \times 3 =$ _____

42 $3 \times 4 =$ _____



Multiply by 2, 5, and 10.

Form A

1 $5 \times 6 =$ _____

2 $9 \times 5 =$ _____

3 $10 \times 2 =$ _____

4 $9 \times 2 =$ _____

5 $10 \times 6 =$ _____

6 $4 \times 5 =$ _____

7 $2 \times 8 =$ _____

8 $10 \times 4 =$ _____

9 $3 \times 5 =$ _____

10 $9 \times 10 =$ _____

11 $8 \times 5 =$ _____

12 $2 \times 9 =$ _____

13 $5 \times 5 =$ _____

14 $6 \times 2 =$ _____

15 $8 \times 2 =$ _____

16 $10 \times 0 =$ _____

17 $7 \times 2 =$ _____

18 $2 \times 4 =$ _____

19 $10 \times 8 =$ _____

20 $2 \times 3 =$ _____

21 $5 \times 10 =$ _____

22 $3 \times 10 =$ _____

23 $5 \times 2 =$ _____

24 $10 \times 5 =$ _____

25 $2 \times 5 =$ _____

26 $5 \times 8 =$ _____

27 $2 \times 2 =$ _____

28 $5 \times 9 =$ _____

29 $7 \times 10 =$ _____

30 $10 \times 10 =$ _____

31 $10 \times 9 =$ _____

32 $2 \times 6 =$ _____

33 $6 \times 5 =$ _____

34 $10 \times 3 =$ _____

35 $5 \times 3 =$ _____

36 $5 \times 7 =$ _____

37 $2 \times 10 =$ _____

38 $7 \times 5 =$ _____

39 $10 \times 7 =$ _____

40 $6 \times 10 =$ _____

41 $1 \times 5 =$ _____

42 $4 \times 2 =$ _____



Multiply by 3, 4, 6, 7, 8, and 9

Form A

1 $8 \times 3 =$ _____

2 $6 \times 5 =$ _____

3 $9 \times 6 =$ _____

4 $4 \times 3 =$ _____

5 $7 \times 7 =$ _____

6 $10 \times 8 =$ _____

7 $6 \times 7 =$ _____

8 $8 \times 5 =$ _____

9 $7 \times 8 =$ _____

10 $2 \times 7 =$ _____

11 $10 \times 3 =$ _____

12 $4 \times 4 =$ _____

13 $8 \times 8 =$ _____

14 $3 \times 5 =$ _____

15 $6 \times 9 =$ _____

16 $9 \times 2 =$ _____

17 $0 \times 7 =$ _____

18 $9 \times 8 =$ _____

19 $10 \times 9 =$ _____

20 $8 \times 7 =$ _____

21 $5 \times 4 =$ _____

22 $3 \times 3 =$ _____

23 $9 \times 4 =$ _____

24 $6 \times 1 =$ _____

25 $7 \times 9 =$ _____

26 $4 \times 6 =$ _____

27 $9 \times 9 =$ _____

28 $1 \times 4 =$ _____

29 $7 \times 10 =$ _____

30 $4 \times 8 =$ _____

31 $6 \times 2 =$ _____

32 $9 \times 5 =$ _____

33 $8 \times 6 =$ _____

34 $9 \times 7 =$ _____

35 $6 \times 6 =$ _____

36 $3 \times 7 =$ _____

37 $8 \times 9 =$ _____

38 $5 \times 7 =$ _____

39 $6 \times 3 =$ _____

40 $7 \times 4 =$ _____

41 $6 \times 10 =$ _____

42 $3 \times 9 =$ _____



Practice facts up to 10×10 .

Form A

1 $3 \times 5 =$ _____

2 $6 \times 7 =$ _____

3 $10 \times 10 =$ _____

4 $4 \times 9 =$ _____

5 $8 \times 6 =$ _____

6 $6 \times 4 =$ _____

7 $4 \times 2 =$ _____

8 $7 \times 7 =$ _____

9 $2 \times 3 =$ _____

10 $7 \times 8 =$ _____

11 $1 \times 1 =$ _____

12 $2 \times 8 =$ _____

13 $6 \times 6 =$ _____

14 $10 \times 5 =$ _____

15 $3 \times 7 =$ _____

16 $5 \times 8 =$ _____

17 $9 \times 9 =$ _____

18 $3 \times 3 =$ _____

19 $7 \times 4 =$ _____

20 $5 \times 2 =$ _____

21 $9 \times 5 =$ _____

22 $2 \times 2 =$ _____

23 $8 \times 3 =$ _____

24 $2 \times 6 =$ _____

25 $9 \times 3 =$ _____

26 $1 \times 7 =$ _____

27 $5 \times 4 =$ _____

28 $7 \times 5 =$ _____

29 $4 \times 4 =$ _____

30 $3 \times 6 =$ _____

31 $8 \times 8 =$ _____

32 $6 \times 9 =$ _____

33 $7 \times 2 =$ _____

34 $2 \times 9 =$ _____

35 $8 \times 9 =$ _____

36 $4 \times 3 =$ _____

37 $5 \times 5 =$ _____

38 $4 \times 8 =$ _____

39 $10 \times 1 =$ _____

40 $9 \times 7 =$ _____

41 $5 \times 6 =$ _____

42 $0 \times 8 =$ _____



Divide up to $25 \div 5$.

Form A

1 $16 \div 4 =$ _____

2 $12 \div 3 =$ _____

3 $6 \div 3 =$ _____

4 $8 \div 2 =$ _____

5 $20 \div 5 =$ _____

6 $9 \div 3 =$ _____

7 $15 \div 3 =$ _____

8 $4 \div 2 =$ _____

9 $0 \div 3 =$ _____

10 $10 \div 2 =$ _____

11 $15 \div 5 =$ _____

12 $4 \div 4 =$ _____

13 $12 \div 4 =$ _____

14 $6 \div 2 =$ _____

15 $10 \div 5 =$ _____

16 $8 \div 4 =$ _____

17 $20 \div 4 =$ _____

18 $5 \div 1 =$ _____

19 $15 \div 3 =$ _____

20 $12 \div 4 =$ _____

21 $16 \div 4 =$ _____

22 $10 \div 2 =$ _____

23 $25 \div 5 =$ _____

24 $0 \div 2 =$ _____

25 $20 \div 5 =$ _____

26 $15 \div 3 =$ _____

27 $8 \div 4 =$ _____

28 $12 \div 3 =$ _____

29 $4 \div 2 =$ _____

30 $9 \div 3 =$ _____

31 $20 \div 4 =$ _____

32 $6 \div 3 =$ _____

33 $12 \div 3 =$ _____

34 $1 \div 1 =$ _____

35 $25 \div 5 =$ _____

36 $15 \div 5 =$ _____

37 $10 \div 5 =$ _____

38 $8 \div 2 =$ _____

39 $12 \div 4 =$ _____

40 $16 \div 4 =$ _____

41 $6 \div 2 =$ _____

42 $20 \div 5 =$ _____



Divide by 2, 5, or 10.

Form A

1 $30 \div 5 =$ _____

2 $20 \div 2 =$ _____

3 $45 \div 5 =$ _____

4 $18 \div 2 =$ _____

5 $60 \div 10 =$ _____

6 $20 \div 5 =$ _____

7 $16 \div 2 =$ _____

8 $40 \div 10 =$ _____

9 $15 \div 5 =$ _____

10 $90 \div 10 =$ _____

11 $40 \div 5 =$ _____

12 $8 \div 2 =$ _____

13 $12 \div 2 =$ _____

14 $25 \div 5 =$ _____

15 $50 \div 10 =$ _____

16 $80 \div 10 =$ _____

17 $14 \div 2 =$ _____

18 $4 \div 2 =$ _____

19 $30 \div 10 =$ _____

20 $6 \div 2 =$ _____

21 $100 \div 10 =$ _____

22 $18 \div 2 =$ _____

23 $10 \div 2 =$ _____

24 $5 \div 5 =$ _____

25 $40 \div 5 =$ _____

26 $10 \div 5 =$ _____

27 $35 \div 5 =$ _____

28 $35 \div 5 =$ _____

29 $70 \div 10 =$ _____

30 $45 \div 5 =$ _____



Divide by 3, 4, 6, 7, 8, and 9.

Form A

1 $56 \div 7 =$ _____

2 $21 \div 3 =$ _____

3 $80 \div 8 =$ _____

4 $18 \div 6 =$ _____

5 $12 \div 4 =$ _____

6 $36 \div 9 =$ _____

7 $35 \div 7 =$ _____

8 $6 \div 6 =$ _____

9 $32 \div 4 =$ _____

10 $24 \div 3 =$ _____

11 $54 \div 9 =$ _____

12 $48 \div 6 =$ _____

13 $64 \div 8 =$ _____

14 $24 \div 6 =$ _____

15 $30 \div 3 =$ _____

16 $63 \div 9 =$ _____

17 $40 \div 8 =$ _____

18 $24 \div 4 =$ _____

19 $54 \div 6 =$ _____

20 $21 \div 7 =$ _____

21 $81 \div 9 =$ _____

22 $70 \div 7 =$ _____

23 $28 \div 4 =$ _____

24 $48 \div 8 =$ _____

25 $24 \div 8 =$ _____

26 $42 \div 7 =$ _____

27 $30 \div 6 =$ _____

28 $36 \div 4 =$ _____

29 $72 \div 9 =$ _____

30 $32 \div 8 =$ _____

31 $16 \div 8 =$ _____

32 $27 \div 3 =$ _____

33 $63 \div 7 =$ _____

34 $56 \div 8 =$ _____

35 $45 \div 9 =$ _____

36 $27 \div 9 =$ _____

37 $20 \div 4 =$ _____

38 $42 \div 6 =$ _____

39 $28 \div 7 =$ _____

40 $72 \div 8 =$ _____

41 $49 \div 7 =$ _____

42 $18 \div 3 =$ _____



Divide up to $100 \div 10$.

Form A

1 $48 \div 6 =$ _____

2 $27 \div 3 =$ _____

3 $16 \div 8 =$ _____

4 $25 \div 5 =$ _____

5 $14 \div 2 =$ _____

6 $72 \div 8 =$ _____

7 $18 \div 6 =$ _____

8 $56 \div 7 =$ _____

9 $6 \div 2 =$ _____

10 $28 \div 4 =$ _____

11 $7 \div 1 =$ _____

12 $45 \div 9 =$ _____

13 $64 \div 8 =$ _____

14 $15 \div 5 =$ _____

15 $20 \div 2 =$ _____

16 $4 \div 2 =$ _____

17 $24 \div 3 =$ _____

18 $63 \div 7 =$ _____

19 $12 \div 3 =$ _____

20 $16 \div 4 =$ _____

21 $90 \div 10 =$ _____

22 $81 \div 9 =$ _____

23 $36 \div 4 =$ _____

24 $12 \div 2 =$ _____

25 $40 \div 8 =$ _____

26 $9 \div 3 =$ _____

27 $49 \div 7 =$ _____

28 $30 \div 6 =$ _____

29 $54 \div 9 =$ _____

30 $1 \div 1 =$ _____

31 $21 \div 7 =$ _____

32 $8 \div 2 =$ _____

33 $35 \div 5 =$ _____

34 $10 \div 10 =$ _____

35 $18 \div 9 =$ _____

36 $36 \div 6 =$ _____

37 $10 \div 2 =$ _____

38 $20 \div 4 =$ _____

39 $42 \div 7 =$ _____

40 $32 \div 8 =$ _____

41 $50 \div 5 =$ _____

42 $24 \div 6 =$ _____



Center Activity 3.11 ★★

Find the Missing Number

What You Need

- number cards (3–7)
- Recording Sheet



Check Understanding

What fact can you use to solve $24 \div \square = 6$?

What You Do

1. Take turns. Place all the cards facedown. Choose two cards as factors. **Don't show them to your partner!** If the two cards have already been used together, trade one card in and pick another.
2. Think of the multiplication fact that uses the two numbers as factors. Pick any two of the three numbers from that fact.
3. Fill in a multiplication and a division fact on the **Recording Sheet**, using only those two numbers.
4. Your partner completes each fact.
5. Check. Then put the cards back.
6. Repeat until each partner has had three turns.

Example

5

3

$$5 \times \underline{\quad} = 15$$

$$15 \div 5 = \underline{\quad}$$

Go Further!

Choose a pair of facts from the **Recording Sheet**. On another sheet of paper, write the other two facts that belong to the same fact family. Exchange papers with your partner to check.



Find the Missing Number

Partner A	Partner B
$\underline{\quad} \times \underline{\quad} = \underline{\quad}$ $\underline{\quad} \div \underline{\quad} = \underline{\quad}$	$\underline{\quad} \times \underline{\quad} = \underline{\quad}$ $\underline{\quad} \div \underline{\quad} = \underline{\quad}$
$\underline{\quad} \times \underline{\quad} = \underline{\quad}$ $\underline{\quad} \div \underline{\quad} = \underline{\quad}$	$\underline{\quad} \times \underline{\quad} = \underline{\quad}$ $\underline{\quad} \div \underline{\quad} = \underline{\quad}$
$\underline{\quad} \times \underline{\quad} = \underline{\quad}$ $\underline{\quad} \div \underline{\quad} = \underline{\quad}$	$\underline{\quad} \times \underline{\quad} = \underline{\quad}$ $\underline{\quad} \div \underline{\quad} = \underline{\quad}$

Where does the greatest number go when you write a multiplication fact? Where does the greatest number go when you write a division fact?





Check Understanding

Find 4×5 . Tell how you found the answer.

Multiplication Race 1

What You Need

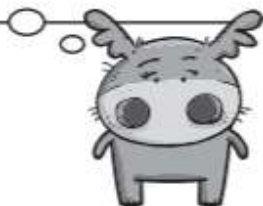
- 2 game markers
- Factor Cards
- Multiplier Cards
- Game Board

What You Do

1. Place the **Factor Cards** and **Multiplier Cards** facedown in two piles.
2. Take turns. Begin with your game marker at **START** on the **Game Board**. Pick one card from each pile.
3. Find the product. Your partner checks your answer. If you are correct and your gray card is 5 or 10, then move forward two spaces. If you are correct and your gray card is 0, 1, or 2, then move forward one space. If you are not correct, move back one space.
4. When you land on a space with words, follow the directions. A Free Turn means you go again before your partner's turn.
5. The winner is the first one to make it to **FINISH**.
6. Shuffle each set of cards. Play again.

I can skip-count to find a product.

I can multiply the factor and multiplier in any order and the product will be the same.

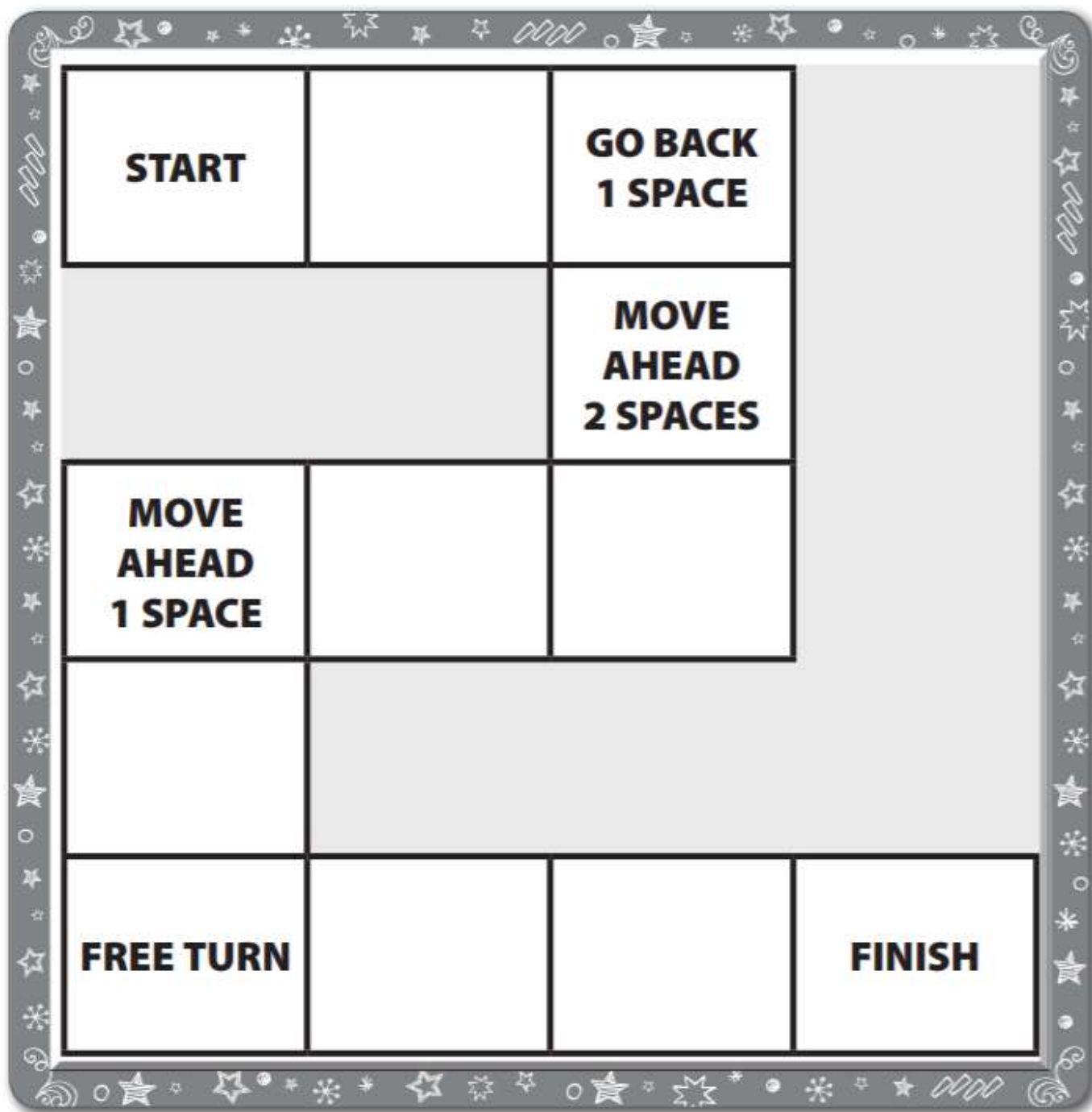


Go Further!

Each player picks one **Factor Card** and one **Multiplier Card**. Each player finds the product of the two cards. The player with the greater number moves forward one space.



Center Activity 3.51 ★★ Game Board



Center Activity 3.51 ★★ Factor Cards



0	1	2
5	10	0
1	2	5
10	5	10

Center Activity 3.51 ★★ Multiplier Cards



0	1	2
3	4	5
5	<u>6</u>	7
8	<u>9</u>	10



Solve Word Problems

What You Need

- number cube (1–6)
- 12 game markers in one color
- 12 game markers in a different color
- Game Board

Check Understanding

There are 35 seats with 7 seats in each row. How many rows are there? Write a number sentence, and explain how you solved the problem.

What You Do

1. Take turns. Roll the number cube. Read the word problem next to the number.
2. Find one equation on the **Game Board** that can be used to solve the word problem. If all matching equations are covered, your turn ends.
3. Your partner checks your answers. If correct, solve and cover that equation with a marker.
4. Repeat until all the equations are covered. The player with the most markers on the **Game Board** wins.
5. Play again!

Toss	Word Problem
1	Ria saw 28 dolphins in all. She saw 4 dolphins each day. How many days did she see dolphins?
2	There are 6 chairs at each table in the cafeteria. There are 30 chairs in all. How many tables are there?
3	There are 24 houses on 6 streets. Each street has an equal number of houses. How many houses are on each street?
4	Ava counts 32 chair legs. Each chair has 4 legs. How many chairs are there?
5	There are 8 cows in each field. There are 24 cows in all. How many fields are there?
6	Your turn ends.

Go Further!

Find an equation that can be used to solve the word problems for Toss 1 and Toss 2. Write the complete fact family for these equations. Trade papers with your partner to check.



Solve Word Problems

$24 \div 6 = ?$ $? = \underline{\quad}$	$30 = 6 \times \square$ $\square = \underline{\quad}$	$? \times 8 = 24$ $? = \underline{\quad}$	$28 \div 4 = ?$ $? = \underline{\quad}$
$28 = 4 \times \square$ $\square = \underline{\quad}$	$24 \div 8 = ?$ $? = \underline{\quad}$	$32 = 4 \times \square$ $\square = \underline{\quad}$	$6 \times ? = 24$ $? = \underline{\quad}$
$8 \times \square = 24$ $\square = \underline{\quad}$	$32 \div 4 = ?$ $? = \underline{\quad}$	$6 = 24 \div \square$ $\square = \underline{\quad}$	$? = 30 \div 6$ $? = \underline{\quad}$

Kim puts 21 pennies in rows of 3.
 How many rows does Kim make?
 I can use a diagram to help me understand the problem.

Number of Rows	How Many in Each Row	Total
?	3	21



Time Match

What You Need







- Recording Sheet

 **Check Understanding**

Draw a clock face with the time showing 7:23. Explain how you know where to draw each hand.

What You Do

1. Take turns. Choose a letter and read the time on the clock next to that letter in the table.
2. Tell the time in another way using the word *before* or *after*.
3. Your partner finds the matching letter on the **Recording Sheet** and then draws the hands on the clock to match the time read.
4. Check the clock.
5. Repeat until all the letters are used.







A	
B	
C	
D	
E	
F	

Go Further!

Choose three clocks from the table above. For each clock write how many more minutes until the next half hour.



Time Match

<p>A</p> 	<p>B</p> 
<p>C</p> 	<p>D</p> 
<p>E</p> 	<p>F</p> 

For the minutes, I start at 12 and count to each number by fives. Then I count the small tick marks past the number by ones.



Unit 1 Assessment Answer Key

1. Part A: Yes, because the factors are the same, the products are the same. $5 \times 6 = 30$ and $6 \times 5 = 30$; Part B: check models – could have 5 rows of 6 or 6 rows of 5.
2. $48 \div 6 = 8$; $6 \times 8 = 48$ or $8 \times 6 = 48$
3. B, D
4. a. true; b. false; c. false; d. true
5. B, D
6. Part A: 6; check explanation to see if it makes sense; Part B: $18 \div 6 = 3$; $3 \times 6 = 18$; $6 \times 3 = 18$
7. Check to see if problem makes sense. Look for situations in which 42 objects are divided into 6 groups of 7 or 7 groups of 6. $42 \div 6 = 7$.
8. Part A: check to see that table is filled in correctly; Part B: Possible answer – the numbers in the row beginning with 5 increase by 5 as you move left to right.; Part C: Possible answer: multiplication means equal groups. Every time 5 is added, that is another group of 5. The column heading tells how many groups of 5 and the product is in the row under each one.
9. a. no; b. yes; c. no; d. yes e. yes
10. A, B, E
11. check work to see if drawing shows 56 divided into 8 groups of 7. “Each friend gets 7 arcade tickets.
12. C
13. 24 – check model and equations. Possible equations: $(5 \times 3) = 15$ and $(3 \times 3) = 9$. Then add 15 and 9 to get 24.
14. 35 people – check drawing – should show 7 groups of 5

Activity Answer Keys

3.51

Check Understanding

20; Possible answer: I used an array to show 4 equal groups of 5. Then I skip-counted by fives 4 times.

Activity Notes

Students will practice their multiplication facts for 0, 1, 2, 5, and 10 by multiplying any number 0 through 10 with 0, 1, 2, 5, or 10. Check students' work for valid multiplication strategies and correct products.

3.5

Check Understanding

5 rows; Possible answer: $35 \div 7 = ?$; I started with the total number of seats and divided by the number of seats in each row to find how many rows.

Recording Sheet

Toss 1: $28 = 4 \times \square$, $\square = 7$; $28 \div 4 = ?$, $? = 7$

Toss 2: $30 = 6 \times \square$, $\square = 5$; $? = 30 \div 6$, $? = 5$

Toss 3: $24 \div 6 = ?$, $? = 4$; $6 \times ? = 24$, $? = 4$;
 $6 = 24 \div \square$, $\square = 4$

Toss 4: $32 = 4 \times \square$, $\square = 8$; $32 \div 4 = ?$, $? = 8$

Toss 5: $? \times 8 = 24$, $? = 3$; $24 \div 8 = ?$, $? = 3$;
 $8 \times \square = 24$, $\square = 3$

3.11

Check Understanding

4; Possible answer: $6 \times 4 = 24$

Recording Sheet

Answers will show a related multiplication and division fact.

3.31

Check Understanding



Possible explanation: I put the hour hand almost halfway between the 7 and 8, because it is almost 30 minutes after 7. I counted 5 minutes for each number until I got to the 4 which is 20 minutes. Then I counted 3 more small marks to get to 23.

Recording Sheet

A:



B:



C:



D:



E:



F:

