

Arithmetic

3 Work-text

Sixth Edition



$$\begin{array}{r} 21 \\ 4 \overline{)84} \\ \underline{-8} \\ 04 \\ \underline{-4} \\ 0 \end{array}$$

$$n+3=5$$

$$\frac{1}{2} + \frac{1}{2}$$

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 **abeka.**
Traditional ARITHMETIC SERIES

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Sixth Edition

Staff Credits

Authors: Dawn Mereness, Kim Gowans, Judy Howe

Managing Editor: Amy Yohe

Edition Editor: Tanya Harrington

Designer: Kenzie Underwood

Cover Illustrator: April Brady

Illustrators: Kimberly Mills, April Brady, Ralph Hulick, Sarah Pregovisk, Naomi Ji, Haeji Kim, Lydia Davis, Peter Kothe, and Abeka Staff

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Arithmetic is...



- studying one aspect of the order of the real world and indirectly learning more about the God Who created the world using mathematics.
- learning to see the addition and multiplication tables as part of the truth and order that God has built into reality.
- knowing that there is a right answer.
- working hard to get the right answer.
- learning to go from the concrete to the abstract, from the particular to the general, from content to concept.
- learning to see relationships between one truth and another.
- learning to be precise and exact in thinking.
- learning to apply mathematics skillfully in order to function in daily life.
- learning to believe in absolutes ($2+2$ always equals 4).
- establishing the extremely important skill of learning things by memory.
- learning to be fast and accurate in thinking.
- seeing how things work together.
- being prepared.
- finishing the job.
- working at a set pace.
- participating in healthy competition.
- learning to be thorough, orderly, careful, alert, obedient, persistent, cooperative, and honest.
- learning to master a received body of knowledge and apply it as one way to obey the command of Genesis 1:28 to subdue the earth and exercise dominion over it.

Name _____

Date _____

Place Value to One Thousands

$$\begin{array}{r} 2 \text{ thousands} + 5 \text{ hundreds} + 8 \text{ tens} + 3 \text{ ones} = 2,583 \\ 2,000 + 500 + 80 + 3 = 2,583 \end{array}$$

A digit is any number 0–9. There are four digits in 2,583.
Commas separate whole numbers into groups of three digits.

The African pygmy hedgehog can have as many as 6,000 quills.



1. Write each digit in the correct place.

	Thousands	Hundreds	Tens	Ones
a. 5, 6 2 9				
b. 9 3 6				
c. 3, 0 0 3				

2. Write the value of each circled digit. Write commas to separate the digits.

- a. 4281 _____ b. 6814 _____
c. 429 _____ d. 2049 _____



dwarf crocodile

3. Write the numbers.

- a. $6,000 + 500 + 90 + 3 =$ _____
b. 9 thousand + 2 hundred + 4 tens + 1 one = _____

4. Write the sums.

- a. $\begin{array}{r} 3 \\ +4 \\ \hline \end{array}$ b. $\begin{array}{r} 7 \\ +2 \\ \hline \end{array}$ c. $\begin{array}{r} 2 \\ +6 \\ \hline \end{array}$ d. $\begin{array}{r} 5 \\ +1 \\ \hline \end{array}$ e. $\begin{array}{r} 9 \\ +9 \\ \hline \end{array}$ f. $\begin{array}{r} 6 \\ +3 \\ \hline \end{array}$

5. Solve the story problem.

Emma had 6 books on her shelf at home. She brought home 3 more books from the library. How many books does she have *in all*? _____ books

Workspace

Telling Time



analog clock

1 minute (min.) = 60 seconds (sec.)

1 hour (hr.) = 60 minutes

1 day = 24 hours



digital clock

“Six days thou shalt work, but on the seventh day thou shalt rest.”
Exodus 34:21

6. Write in order from smallest to largest.

day hour minute second

a. _____ b. _____ c. _____ d. _____

7. Write the times.







8. Draw hands to show the following times.



5:00



1:45



8:05

9. Write the answers.

a. 1 hr. = _____ min.

b. 1 min. = _____ sec.

c. 1 day = _____ hr.

d. 60 sec. = 1 _____

e. 60 min. = 1 _____

f. 24 hr. = 1 _____

Two-Digit Addition

tens		ones	
5		2	addend
+ 2		4	addend
7		6	sum

1. Add the addends in the ones place.
2. Add the addends in the tens place.

1. Write the correct term beside each number in a. Write the sums.

a. $\begin{array}{r} 25 \\ + 34 \\ \hline \end{array}$ _____

b. $\begin{array}{r} 76 \\ + 22 \\ \hline \end{array}$

c. $\begin{array}{r} 31 \\ + 26 \\ \hline \end{array}$

d. $\begin{array}{r} 53 \\ + 45 \\ \hline \end{array}$

e. $\begin{array}{r} 70 \\ + 19 \\ \hline \end{array}$

f. $\begin{array}{r} 33 \\ + 43 \\ \hline \end{array}$

g. $\begin{array}{r} 24 \\ + 33 \\ \hline \end{array}$



2. Write the times.



3. Set the clocks.



4. Write the answers.

a. 1 day = _____ hr.

b. 1 hr. = _____ min.

c. 1 min. = _____ sec.

5. Write the numbers.

a. $7,000 + 9 =$ _____

b. $300 + 80 + 5 =$ _____

c. $4,000 + 30 =$ _____

6. Write the numbers your teacher says.

a. _____ b. _____



pangolin

7. Mark the \bigcirc under the correct number for each number word.

a. six hundred ninety-four

b. four thousand

6,940 694 6,094
 \bigcirc \bigcirc \bigcirc

40 400 4,000
 \bigcirc \bigcirc \bigcirc

8. Write commas to separate the digits. Circle the digit in the tens place.

a. 5438

b. 2003

c. 7926

d. 5351

9. Write the sums.

a. $\begin{array}{r} 2 \\ +7 \\ \hline \end{array}$

b. $\begin{array}{r} 11 \\ +5 \\ \hline \end{array}$

c. $\begin{array}{r} 3 \\ +6 \\ \hline \end{array}$

d. $\begin{array}{r} 9 \\ +6 \\ \hline \end{array}$

e. $\begin{array}{r} 3 \\ +4 \\ \hline \end{array}$

f. $\begin{array}{r} 6 \\ +2 \\ \hline \end{array}$

g. $\begin{array}{r} 5 \\ +3 \\ \hline \end{array}$

h. $\begin{array}{r} 8 \\ +2 \\ \hline \end{array}$



leopard slug

jack-o-lantern
mushroom

i. $1 + 5 + 2 + 0 = \underline{\quad}$

j. $8 + 5 + 2 + 5 = \underline{\quad}$

10. Solve the story problem.

Jaden is starting a rock collection. He had 12 rocks. On vacation, he found 6 more. How many rocks are in his collection altogether? _____ rocks

Workspace

Addition with Carrying

	thousands	hundreds	tens	ones
	1	1	1	
	↓			
+		7	8	9
		9	2	6
	1	7	1	5

1. Add the ones place first. If the sum is greater than 9, carry to the tens place.
2. Add the tens place. If necessary, carry to the hundreds place.
3. Continue adding each place, carrying when necessary.

1. Write the sums.

a.
$$\begin{array}{r} 13 \\ +27 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 24 \\ +38 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 276 \\ +152 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 692 \\ +283 \\ \hline \end{array}$$

e.
$$\begin{array}{r} 681 \\ +129 \\ \hline \end{array}$$

f.
$$\begin{array}{r} 342 \\ +678 \\ \hline \end{array}$$

2. Write the sums.

a. $11 + 7 = \underline{\quad}$

b. $9 + 6 = \underline{\quad}$

c. $12 + 2 = \underline{\quad}$

d. $10 + 3 = \underline{\quad}$

e. $5 + 5 = \underline{\quad}$

f. $6 + 6 = \underline{\quad}$

3. Mark the \bigcirc under the number that has 3 hundreds and 8 tens.

30,080	308	3,008	380
\bigcirc	\bigcirc	\bigcirc	\bigcirc

4. Mark the \bigcirc under the number that has 5 hundreds and 7 ones.

570	5,007	507	50,007
\bigcirc	\bigcirc	\bigcirc	\bigcirc



The paradoxical frog is also called the shrinking frog because its huge tadpoles can be 11 in. long, while the adult measures about $2\frac{1}{2}$ in.

Two-Digit Subtraction

tens	ones	
4	9	minuend
- 2	3	subtrahend
2	6	difference

1. Subtract the ones column.
2. Subtract the tens column.

5. Write the correct term beside each number in a. Write the differences.

a.
$$\begin{array}{r} 95 \\ - 53 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 76 \\ - 15 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 95 \\ - 74 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 62 \\ - 30 \\ \hline \end{array}$$

e.
$$\begin{array}{r} 52 \\ - 11 \\ \hline \end{array}$$

f.
$$\begin{array}{r} 99 \\ - 76 \\ \hline \end{array}$$

g.
$$\begin{array}{r} 68 \\ - 25 \\ \hline \end{array}$$



quoll

6. Write the differences.

a.
$$\begin{array}{r} 16 \\ - 7 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 12 \\ - 9 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 15 \\ - 6 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 13 \\ - 9 \\ \hline \end{array}$$

e.
$$\begin{array}{r} 17 \\ - 9 \\ \hline \end{array}$$

f.
$$\begin{array}{r} 14 \\ - 5 \\ \hline \end{array}$$

7. Circle a.m. or p.m.

a. At 1:06 the sun is shining brightly. a.m. p.m.

b. At 1:06 the stars are twinkling. a.m. p.m.

c. At 4:25 you are playing soccer. a.m. p.m.

d. At 4:25 you are sleeping in your bed. a.m. p.m.



$4 + 6 = 10$

$10 - 6 = \underline{\quad}$

$3 + 8 = 11$

$11 - 8 = \underline{\quad}$

$9 + 5 = 14$

$14 - 5 = \underline{\quad}$

Nine as a Divisor



36 leaves

9 leaves in each group

4 groups of leaves

$$36 \div 9 = 4$$

Matschie's tree kangaroo is able to jump 60 ft. from its perch in a tree to the ground without getting hurt.

1. Write the quotients.

a. $0 \div 9 = \underline{\quad}$ b. $9 \div 9 = \underline{\quad}$ c. $18 \div 9 = \underline{\quad}$ d. $27 \div 9 = \underline{\quad}$

e. $36 \div 9 = \underline{\quad}$ f. $45 \div 9 = \underline{\quad}$ g. $54 \div 9 = \underline{\quad}$ h. $63 \div 9 = \underline{\quad}$

i. $72 \div 9 = \underline{\quad}$ j. $81 \div 9 = \underline{\quad}$ k. $90 \div 9 = \underline{\quad}$ l. $99 \div 9 = \underline{\quad}$

m. $108 \div 9 = \underline{\quad}$ n. $54 \div 6 = \underline{\quad}$ o. $63 \div 7 = \underline{\quad}$ p. $72 \div 8 = \underline{\quad}$

2. Solve the story problems.

- a. When Chloe and her family went on vacation, the average speed for their car was 58 mph (miles per hour). How many miles could they travel in 9 hours?
- _____

- b. Chloe had saved \$40.00 to spend on souvenirs. She spent \$15.43 on the first day, \$12.04 on the second day, and \$9.79 on the third day. How much money does she have left?
- _____

Workspace a

Workspace b



3. Find the fractional parts.

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

b. $\frac{1}{9}$ of 36 = _____

c. $\frac{1}{9}$ of 108 = _____

Reducing Fractions by Dividing by 6



$$\frac{6 \div 6}{12 \div 6} = \frac{1}{2}$$



Remember, to reduce a fraction, divide both the numerator and the denominator by the same number.

4. Reduce these fractions. ($\div 6$)

a. $\frac{6}{36} \div \frac{6}{6} = \underline{\hspace{2cm}}$ b. $\frac{12}{18} \div \frac{6}{6} = \underline{\hspace{2cm}}$ c. $\frac{24}{30} \div \frac{6}{6} = \underline{\hspace{2cm}}$ d. $\frac{66}{72} \div \frac{6}{6} = \underline{\hspace{2cm}}$

5. Divide and check.

a. $8 \overline{)995}$ check

b. $7 \overline{)364}$ check

6. Follow the signs.

a.
$$\begin{array}{r} 5,537 \\ 6,978 \\ 4,256 \\ +5,982 \\ \hline \end{array}$$

b.
$$\begin{array}{r} 2,346 \\ -1,895 \\ \hline \end{array}$$

c.
$$\begin{array}{r} 7,609 \\ \times \quad 8 \\ \hline \end{array}$$

d.
$$\begin{array}{r} 7,265 \\ \times \quad 9 \\ \hline \end{array}$$



Any plane figure made of straight lines is called a polygon.

Is a triangle a polygon? _____ Are all the quadrilaterals polygons? _____

Is a circle a polygon? _____

Name another figure that is a polygon. _____

Multiplication Practice

Mark the \bigcirc under the best answer. If the answer is not here, mark under NH.

1.

$$7 \times 8 =$$

54 56 63 NH

2.

$$\begin{array}{r} 8 \\ \times 9 \\ \hline \end{array}$$

64 74 80 NH

3.

$$4 \times 82 =$$

86 328 78 NH

4.

$$\begin{array}{r} 56 \\ \times 4 \\ \hline \end{array}$$

224 242 248 NH

5.

$$\underline{\quad} \times 8 = 64$$

6 7 8 NH

6.

$$9 \times 47 =$$

424 56 396 NH

7.

$$\begin{array}{r} 307 \\ \times 5 \\ \hline \end{array}$$

185 1,535 1,553 NH

8.

$$5 \times 411 =$$

2,055 5,520 2,005 NH

9.

$$7 \times \underline{\quad} = 56$$

6 9 10 NH

10.

$$4 \times 26 =$$

14 104 1,004 NH

Name _____

Date _____

Multiplication with Carrying

1.
$$\begin{array}{r} 34 \\ \times 2 \\ \hline \end{array}$$

2.
$$\begin{array}{r} 73 \\ \times 3 \\ \hline \end{array}$$

3.
$$\begin{array}{r} 28 \\ \times 2 \\ \hline \end{array}$$

4.
$$\begin{array}{r} 15 \\ \times 3 \\ \hline \end{array}$$

5.
$$\begin{array}{r} 34 \\ \times 3 \\ \hline \end{array}$$

6.
$$\begin{array}{r} 29 \\ \times 2 \\ \hline \end{array}$$

7.
$$\begin{array}{r} 78 \\ \times 3 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 32 \\ \times 5 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 28 \\ \times 4 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 76 \\ \times 3 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 87 \\ \times 5 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 96 \\ \times 4 \\ \hline \end{array}$$

13.
$$\begin{array}{r} 56 \\ \times 4 \\ \hline \end{array}$$

14.
$$\begin{array}{r} 74 \\ \times 5 \\ \hline \end{array}$$

15.
$$\begin{array}{r} 237 \\ \times 6 \\ \hline \end{array}$$

16.
$$\begin{array}{r} 456 \\ \times 5 \\ \hline \end{array}$$

17.
$$\begin{array}{r} 938 \\ \times 4 \\ \hline \end{array}$$

18.
$$\begin{array}{r} 729 \\ \times 3 \\ \hline \end{array}$$

19.
$$\begin{array}{r} 608 \\ \times 5 \\ \hline \end{array}$$

20.
$$\begin{array}{r} 599 \\ \times 6 \\ \hline \end{array}$$

21.
$$\begin{array}{r} 876 \\ \times 6 \\ \hline \end{array}$$

22.
$$\begin{array}{r} 946 \\ \times 7 \\ \hline \end{array}$$

23.
$$\begin{array}{r} 998 \\ \times 6 \\ \hline \end{array}$$

24.
$$\begin{array}{r} 716 \\ \times 5 \\ \hline \end{array}$$

25.
$$\begin{array}{r} 295 \\ \times 7 \\ \hline \end{array}$$

26.
$$\begin{array}{r} 829 \\ \times 4 \\ \hline \end{array}$$

27.
$$\begin{array}{r} 2,633 \\ \times 8 \\ \hline \end{array}$$

28.
$$\begin{array}{r} 7,895 \\ \times 7 \\ \hline \end{array}$$

29.
$$\begin{array}{r} 6,229 \\ \times 3 \\ \hline \end{array}$$

30.
$$\begin{array}{r} 7,463 \\ \times 7 \\ \hline \end{array}$$

31.
$$\begin{array}{r} 5,973 \\ \times 8 \\ \hline \end{array}$$

32.
$$\begin{array}{r} \$43.82 \\ \times 9 \\ \hline \end{array}$$

33.
$$\begin{array}{r} \$76.95 \\ \times 4 \\ \hline \end{array}$$

34.
$$\begin{array}{r} \$19.87 \\ \times 9 \\ \hline \end{array}$$

35.
$$\begin{array}{r} \$23.88 \\ \times 8 \\ \hline \end{array}$$

36.
$$\begin{array}{r} \$48.96 \\ \times 9 \\ \hline \end{array}$$

37.
$$\begin{array}{r} 3,287 \\ \times 8 \\ \hline \end{array}$$

38.
$$\begin{array}{r} 23 \\ \times 72 \\ \hline \end{array}$$

39.
$$\begin{array}{r} 58 \\ \times 43 \\ \hline \end{array}$$

40.
$$\begin{array}{r} 72 \\ \times 95 \\ \hline \end{array}$$

41.
$$\begin{array}{r} 86 \\ \times 43 \\ \hline \end{array}$$

42.
$$\begin{array}{r} 243 \\ \times 73 \\ \hline \end{array}$$

43.
$$\begin{array}{r} 507 \\ \times 12 \\ \hline \end{array}$$

44.
$$\begin{array}{r} 936 \\ \times 58 \\ \hline \end{array}$$

45.
$$\begin{array}{r} 783 \\ \times 94 \\ \hline \end{array}$$