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LESSON

1 Sequences • Digits

WARM-UP

Facts Practice: 100 Addition Facts (Test A)†

Mental Math: Count by tens from 10 to 100. Count by hundreds from 100 to 1000.

a. 3 + 3	**b.** 30 + 30	**c.** 300 + 300
d. 40 + 50	**e.** 200 + 600	**f.** 50 + 50
g. 20 + 20 + 20	**h.** 500 + 500 + 500	

Problem Solving:

The counting numbers are 1, 2, 3, 4, and so on. How many one-digit counting numbers are there?

NEW CONCEPTS

Sequences

Counting is a math skill that we learn early in life. Counting by ones, we say the numbers

1, 2, 3, 4, 5, 6, ...

These numbers are called **counting numbers.** We can also count by a number other than one. Below we show the first five numbers for counting by twos and the first five numbers for counting by fives.

2, 4, 6, 8, 10, ...

5, 10, 15, 20, 25, ...

An ordered list of numbers forms a **sequence.** Each member of the sequence is a **term.** The three dots mean that the sequence continues even though the numbers are not written. We can study a sequence to discover its counting pattern, or rule. The rule can be used to find more terms in the sequence.

Example 1 What are the next three terms in this counting sequence?

3, 6, 9, 12, _____, _____, _____, ...

†For instructions on how to use the Warm-up activities, please consult the preface.

Solution The pattern is "Count up by threes." To find the next three terms, we may count up by threes, or we may count up by ones and emphasize every third term (one, two, *three,* four, five, *six,* ...). Either way, we find that the next three terms are **15, 18,** and **21.**

Example 2 Describe the rule for this counting sequence. What is the next term in the sequence?

56, 49, 42, _____, ...

Solution This sequence counts down. We find that the rule for this sequence is **"Count down by sevens."** Counting down by seven from 42 gives us **35.**

Digits There are ten **digits** in our number system. They are 0, 1, 2, 3, 4, 5, 6, 7, 8, and 9. The number 385 has three digits, and the last digit is 5. The number 148,567,896,094 has twelve digits, and the last digit is 4.

Example 3 The number 186,000 has how many digits?

Solution The number 186,000 has **six digits.**

Example 4 What is the last digit of 26,348?

Solution The number 26,348 has five digits. The last digit is **8.**

LESSON PRACTICE

Practice set Describe the rule for each counting sequence. Then write the next three terms in the sequence.

a. 6, 8, 10, _____, _____, _____, ...

b. 7, 14, 21, _____, _____, _____, ...

c. 4, 8, 12, _____, _____, _____, ...

d. 21, 18, 15, _____, _____, _____, ...

e. 45, 40, 35, _____, _____, _____, ...

f. 12, 18, 24, _____, _____, _____, ...

How many digits are in each of these numbers?

g. 36,756 **h.** 8002 **i.** 1,287,495

What is the last digit of each of these numbers?

j. 17 **k.** 3586 **l.** 654,321

MIXED PRACTICE

Problem set Write the next term in each counting sequence:

1. 10, 15, 20, _____, ... **2.** 56, 49, 42, _____, ...

3. 8, 16, 24, _____, ... **4.** 18, 27, 36, 45, _____, ...

5. 24, 21, 18, _____, ... **6.** 32, 28, 24, 20, _____, ...

Write the missing term in each counting sequence:

7. 7, 14, _____, 28, 35, ... **8.** 40, _____, 30, 25, 20, ...

9. 20, _____, 28, 32, 36, ... **10.** 24, 32, _____, 48, ...

11. _____, 36, 30, 24, ... **12.** 21, 28, _____, 42, ...

Describe the rule for each counting sequence, and write the next three terms:

13. 3, 6, 9, 12, _____, _____, _____, ...

14. 8, 16, 24, _____, _____, _____, ...

15. 6, 12, 18, _____, _____, _____, ...

16. 40, 35, 30, _____, _____, _____, ...

17. 18, 21, 24, _____, _____, _____, ...

18. 9, 18, 27, _____, _____, _____, ...

19. What word names an ordered list of numbers?

How many digits are in each number?

20. 186,000 **21.** 73,842 **22.** 30,004,091

What is the last digit of each number?

23. 26,348 **24.** 347 **25.** 9,675,420

Tests and Worksheets

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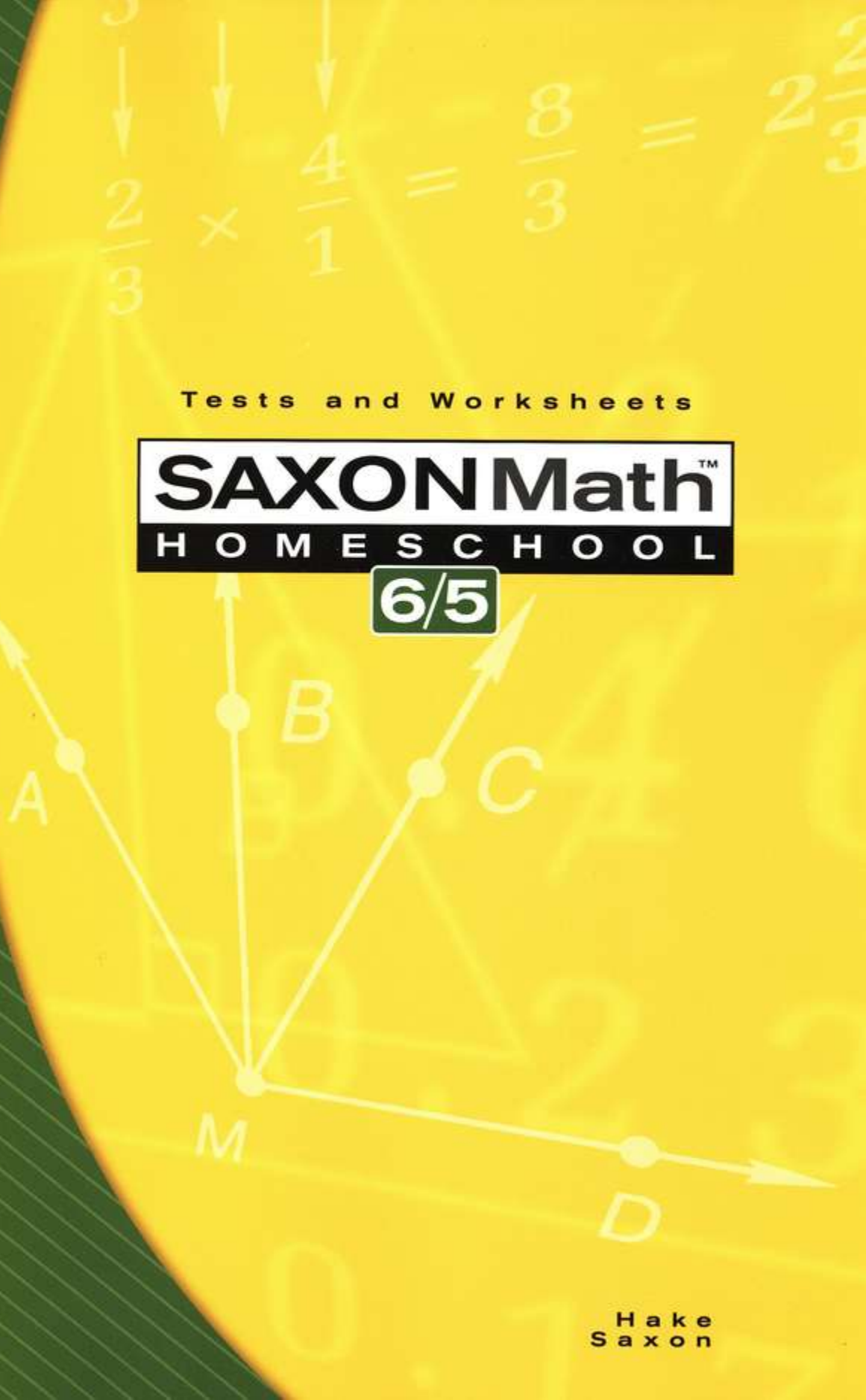

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A

100 Addition Facts

For use with Lesson 1

Name _____

Time _____

Add.

3 + 2	8 + 3	2 + 1	5 + 6	2 + 9	4 + 8	8 + 0	3 + 9	1 + 0	6 + 3
7 + 3	1 + 6	4 + 7	0 + 3	6 + 4	5 + 5	3 + 1	7 + 2	8 + 5	2 + 5
4 + 0	5 + 7	1 + 1	5 + 4	2 + 8	7 + 1	4 + 6	0 + 2	6 + 5	4 + 9
8 + 6	0 + 4	5 + 8	7 + 4	1 + 7	6 + 6	4 + 1	8 + 2	2 + 4	6 + 0
9 + 1	8 + 8	2 + 2	4 + 5	6 + 2	0 + 0	5 + 9	3 + 3	8 + 1	2 + 7
4 + 4	7 + 5	0 + 1	8 + 7	3 + 4	7 + 9	1 + 2	6 + 7	0 + 8	9 + 2
0 + 9	8 + 9	7 + 6	1 + 3	6 + 8	2 + 0	8 + 4	3 + 5	9 + 8	5 + 0
9 + 3	2 + 6	3 + 0	6 + 1	3 + 6	5 + 2	0 + 5	6 + 9	1 + 8	9 + 6
4 + 3	9 + 9	0 + 7	9 + 4	7 + 7	1 + 4	3 + 7	7 + 0	2 + 3	5 + 1
9 + 5	1 + 5	9 + 0	3 + 8	1 + 9	5 + 3	4 + 2	9 + 7	0 + 6	7 + 8

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19 Measuring Angles

For use with Investigation 4

Name _____

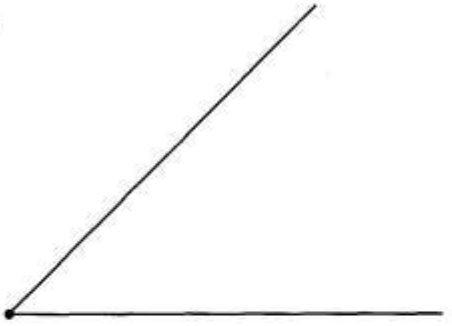
Use a protractor to measure each angle on this page. Write your measurements inside each angle.

Position the protractor on the angle so that:

1. The protractor is centered on the vertex.
2. One side of the angle passes through one of the 0° marks on the protractor.
3. The other side of the angle passes through the scale.

To decide which scale to read, first note whether you are measuring an acute angle (less than 90°) or an obtuse angle (greater than 90°).

a.



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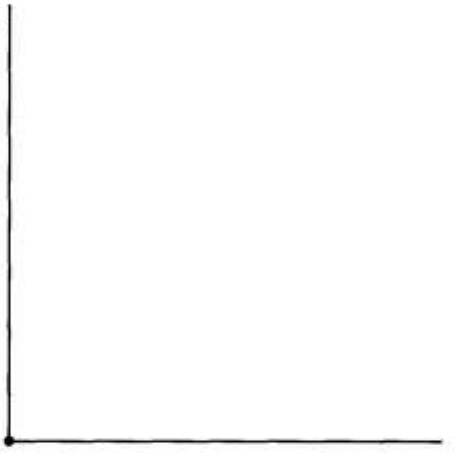

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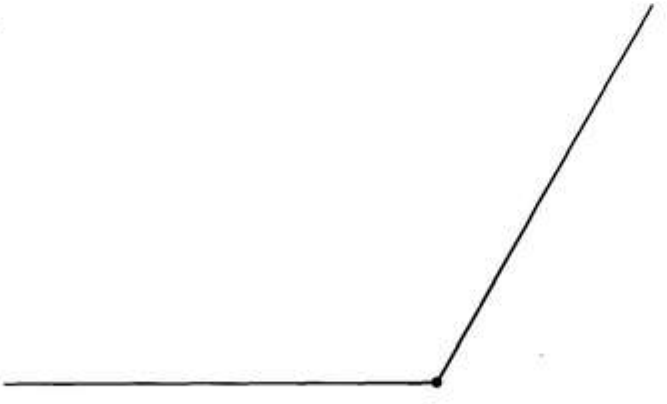

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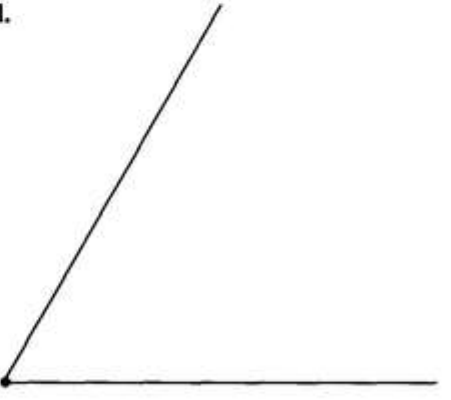

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TEST

2

Also take Facts Practice Test B (100 Subtraction Facts).

Name _____

1. (11) On Pedro's team there are twenty-three girls and eighteen boys. Altogether, how many boys and girls are on his team?

2. (2) On Siew's team there are 50 boys and girls. Half the athletes are girls. How many girls are on Siew's team?

3. (8) For the fact family 1, 4, and 5, write two addition facts and two subtraction facts.

4. (7) Use digits to write three hundred seven thousand, eight hundred thirteen.

5. (2) Use the three digits 2, 3, and 4 once each to make an even number greater than 400.

Find each missing addend:

6. (10) $14 + n = 22$

7. (10) $b + 11 = 50$

8. (3) Which digit in 82,384 shows the number of hundreds?

9. (4, 8) Compare: $37 - 7 \bigcirc 32 - 2$

10. (2) Think of two even numbers. Add them together. Is the sum odd or even?

11. (7) Kelly is third in line. Bobby is fifteenth in the same line. How many people are between them?

12. (6)
$$\begin{array}{r} 143 \\ 87 \\ +\ 623 \\ \hline \end{array}$$

13. (9)
$$\begin{array}{r} 327 \\ -\ 239 \\ \hline \end{array}$$

14. (9)
$$\begin{array}{r} 900 \\ -\ 238 \\ \hline \end{array}$$

15. (6)
$$\begin{array}{r} 5 \\ 6 \\ 2 \\ 9 \\ +\ 7 \\ \hline \end{array}$$

16. (9) $229 - $40

17. (6) $23 + $276 + $3

Write the next term in each counting sequence:

18. (1) 9, 18, 27, _____, ...

19. (1) 35, 40, 45, _____, ...

20. (1) 63, 56, 49, _____, ...

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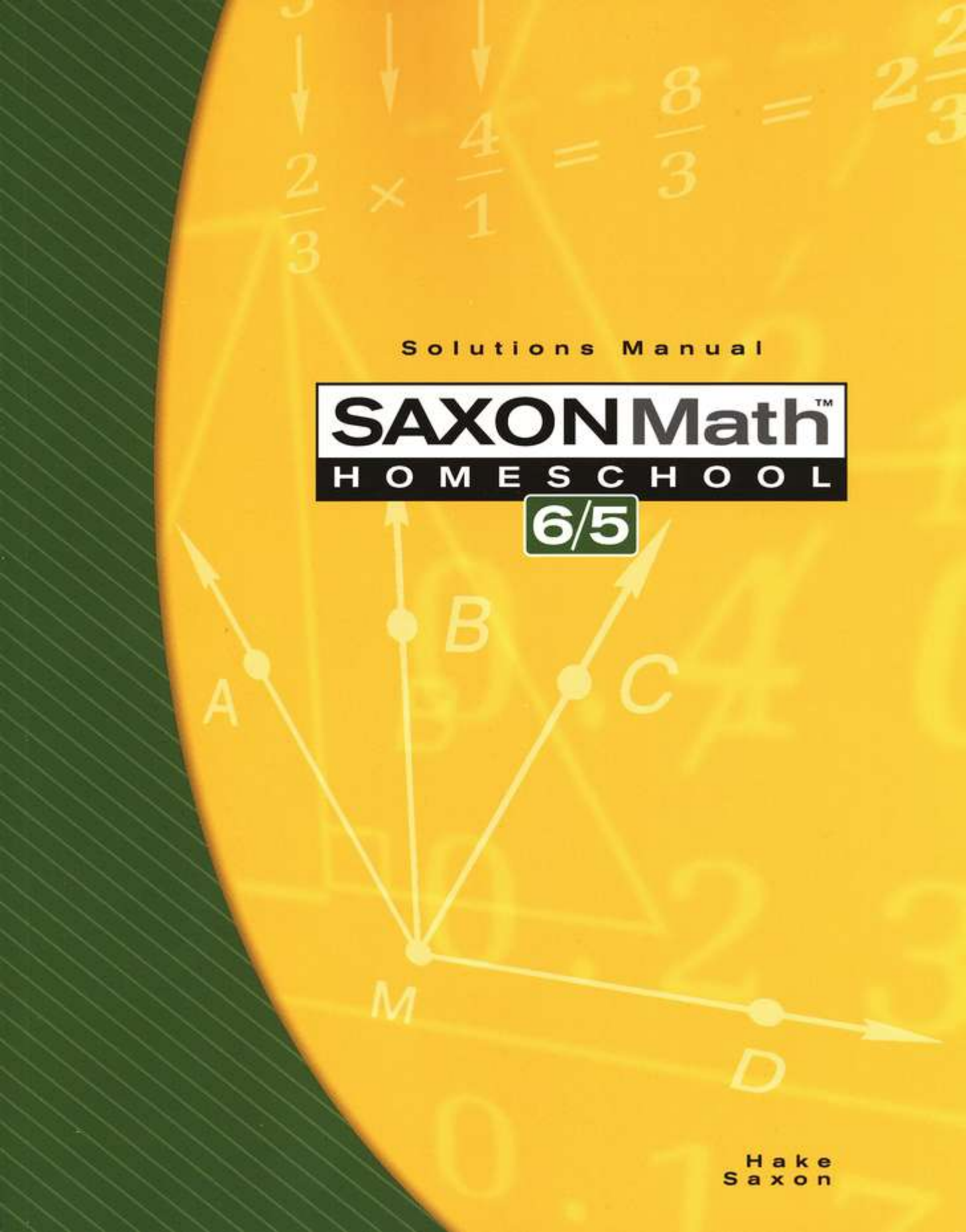

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Lesson 1, Warm-Up

a. 6

b. 60

c. 600

d. 90

e. 800

f. 100

g. 60

h. 1500

Problem Solving
9

Lesson 1, Lesson Practice

a. The rule is **"Count up by twos."**
12, 14, 16

b. The rule is **"Count up by sevens."**
28, 35, 42

c. The rule is **"Count up by fours."**
16, 20, 24

d. The rule is **"Count down by threes."**
12, 9, 6

e. The rule is **"Count down by fives."**
30, 25, 20

f. The rule is **"Count up by sixes."**
30, 36, 42

g. **5 digits**

h. **4 digits**

i. **7 digits**

j. **7**

k. **6**

l. **1**

Lesson 1, Mixed Practice

1. The rule is "Count up by fives."
25

2. The rule is "Count down by sevens."
35

3. The rule is "Count up by eights."
32

4. The rule is "Count up by nines."
54

5. The rule is "Count down by threes."
15

6. The rule is "Count down by fours."
16

7. The rule is "Count up by sevens."
21

8. The rule is "Count down by fives."
35

9. The rule is "Count up by fours."
24

10. The rule is "Count up by eights."
40

11. The rule is "Count down by sixes."
42

12. The rule is "Count up by sevens."
35

13. The rule is **"Count up by threes."**
15, 18, 21

14. The rule is **"Count up by eights."**
32, 40, 48

15. The rule is **"Count up by sixes."**
24, 30, 36

16. The rule is **"Count down by fives."**
25, 20, 15

17. The rule is **"Count up by threes."**
27, 30, 33

18. The rule is **"Count up by nines."**
36, 45, 54

19. **Sequence**

20. **6 digits**

21. **5 digits**

22. **8 digits**

23. **8**

24. **7**

25. **0**

Lesson 2, Warm-Up

a. **12**

b. **120**

c. **1200**

d. **130**

e. **150**

f. **900**

g. **180**

h. **200**

Problem Solving
90

Lesson 2, Activity

Counting number	11	12	13	14	15	16	17	18	19	20
Half of number	$5\frac{1}{2}$	6	$6\frac{1}{2}$	7	$7\frac{1}{2}$	8	$8\frac{1}{2}$	9	$9\frac{1}{2}$	10

Lesson 2, Lesson Practice

a. **Even**

b. **Even**

c. **Odd**

d. **Odd**

e. **Even**

f. **Even**

g. **Even number**

h. **$3\frac{1}{2}$ cookies**

Lesson 2, Mixed Practice

1. **Odd**

2. **0**

3. **7**

4. **Odd**

5. **Even**

6. **Odd**

7. **3716**

8. **56,789**

9. **333,456**

10. **323**

11. The rule is "Count up by threes."
18, 21, 24

12. The rule is "Count up by eights."
40, 48, 56

13. The rule is "Count down by tens."
90, 80, 70

14. The rule is "Count down by fours."
16, 12, 8

15. The rule is "Count down by fives."
40, 35, 30

16. The rule is "Count up by nines."
45, 54, 63

17. The rule is "Count down by threes."
27, 24, 21

18. The rule is "Count up by sixes."
36, 42, 48

19. The rule is "Count up by sevens."
35, 42, 49

20. The rule is "Count down by sixes."
48, 42, 36

21. The rule is "Count down by fours."
36, 32, 28

22. The rule is "Count down by nines."
72, 63, 54

23. The rule is "Count down by eights."
64, 56, 48

24. The rule is "Count down by sevens."
63, 56, 49

25. **B. 31**

26. $2\frac{1}{2}$

27. **B. Half of 12**

LESSON 3, WARM-UP

a. 100

b. 320

c. 340

d. 540

e. 290

f. 650

g. 180

h. 720

Problem Solving
900

LESSON 3, ACTIVITY

1. **1 hundred + 2 tens + 0 ones**

2. **1 hundred + 3 tens + 2 ones**

LESSON 3, LESSON PRACTICE

a. 6

b. 350

c. $215

LESSON 3, MIXED PRACTICE

1. **578**

2. **250**

3. **6**

4. **5**