Lesson 77 Name Date

Solving word problems by listing the possibilities

Maurice and Donnie have 8 marbles. Maurice has 2 more marbles than Donnie. How many marbles does Donnie have?

Make a list of the possibilities - (8 + 0) , (7 + 1) , (6 + 2) , (5 + 3) and (4 + 4).

These are the possibilities because each pair of numbers adds to 8, which is the total number of marbles. The second sentence says that Maurice's number is 2 more than Donnie's. Which pair of numbers has one number that is 2 more than the other?

Answer: (5 + 3). Maurice has 5 marbles and Donnie has 3 marbles.

Go through both steps in order to solve each of these problems.

① Marco and Les are enrolled in 7 classes. Les has 1 more class than Marco. How many classes is Les enrolled in?

(0 + 7) (1 + 6)
(2 + 5) (3 + 4)

Les has 4 classes.

② Amanda and Dana went to 9 movies over their summer break. Amanda saw 1 less movie than Dana. How many movies did Amanda see?

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

4 movies

③ Dusty and Felix have 6 ties. Dusty has 4 more than Felix. How many ties does Felix have?

(0+6) (1+5)
(2+4) (3+3)

1 tie

Basic Fact Practice

12 x 7 = 84	8 x 9 = 72	7 x 8 = 56	3 x 9 = 27	9 x 6 = 54	7 x 7 = 49	6 x 4 = 24	9 x 8 = 72
12) 36 = 3	7) 49 = 7	9) 27 = 3	6) 30 = 5	8) 48 = 6	8) 40 = 5	6) 24 = 4	6) 36 = 6
11) 44 = 4	6) 42 = 7	3) 24 = 8	4) 36 = 9	7) 21 = 3	4) 28 = 7	8) 32 = 4	4) 24 = 6

Homework

A 10

8 tenths - 2 tenths = 6 tenths

4 fifths - 3 fifths = 1 fifth

2 fourths + 1 fourth = 3 fourths

6 + 1 + 3 = 10

B 70

Four pies are cut into eighths. How many pieces will there be?

4 x 8 = 32

32 pieces

(428, 436, 444, 452)

counting up by 8

2 ft 6 in 30 in

32 + 8 + 30 = 70

C 221 r5

34 r2
56 r2
131 r1
221 r5

D $47.44

Owen had $6.28. He spent $4.98 and he earned $8.76. How much money does he have now?

$6.28 - 4.98 = $1.30
$1.30 + 8.76 = $10.06

$10.06

$4 0.0 0 - 3.1 0 = $36.90

Six bouncy balls cost 24¢. How much will a dozen bouncy balls cost?

6 → 24¢ (×2)
12 → 48¢

48¢

$10.06 + 36.90 + .48 = $47.44

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Guided Practice 77 Name

A 7/8

4/8 - 1/8 = 3/8
1/8 + 1/8 = 2/8
7/8 - 5/8 = 2/8

3/8 + 2/8 + 2/8 = 7/8

B 404

9) 126 = 14
2) 770 = 385
14 × 5 = 70; 70 - 70 = 0

14 + 385 + 5 = 404

C 176

Circle the set with two odd numbers.

(63, 86) (79, 58)
(67, 81) (53, 86)

1 nickel equals 1/20 of a dollar.

CD is a _____.

7. radius
8. diameter

67 + 81 + 20 + 8 = 176

D 107

Select the correct symbol.

4 x 10 = 5 x 8

25. = 26. > 27. <

Which statements are true?

25 4 x 7 ≠ 9 x 3
26. 18 ÷ 3 < 24 ÷ 4
27 2 x 12 > 3 x 7

Days in November? 30

25 + 25 + 27 + 30 = 107

E 53

It is 6:14 AM. In 10 hours it will be 14 minutes after 4 PM.

6 7 8 9 10 11 12 1 2 3 4

It is 3:42 PM. 7 hours ago it was 18 minutes before 9 AM.

60 - 42 = 18

8 9 10 11 12 1 2 3

A hexagon has 6 sides.

6 ÷ 3 = 2

6 feet = 2 yards

14 + 4 + 18 + 9 + 6 + 2 = 53

F 17,253

Round each number so there is only one non-zero digit.

2,509 3,000 3,824 4,000

639 × 7 = 4,473
800 × 7 = 5,600

3,000 + 4,000 + 4,473 + 5,600 + 180 = 17,253

The sum of the angles of a triangle is 180°.

G 40

What is the area?

5 ft, 5 ft

5 x 5 = 25

25 sq ft

Twelve people took four tents on a trip. The same number of people were in each tent. Which equation shows how many people were in each tent?

6. 12 + 4 =
7. 12 - 4 =
8. 12 x 4 =
9 12 ÷ 4 = 3

Three key chains cost 10¢. How many key chains can be bought for 20¢?

3 → 10¢ (×2)
6 → 20¢

6 key chains

25 + 9 + 6 = 40

H 195

Which is longer?

6 4 yards = 12 ft
7. 9 feet

X Y Z

Select the best estimate for ∠Y.

10° 175° 190°

Which of these figures is similar to the above?

7. 8. 9.

How has the figure moved?

5 reflection (flip)
6. translation (slide)
7. rotation (turn)

6 + 175 + 9 + 5 = 195

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