Name: ANSWER KEY

4.OA.1

Directions: Solve each problem.

Fill in the blanks.

32 is 4 times as many as **8**.

20 is 5 times as many as **4**.

66 is 11 times as many as **6**.

49 is 7 times as many as **7**.

Write the statement as a multiplication equation.

18 is 2 times as many as 9

18 = 2 x 9

84 is 12 times as many as 7

84 = 12 x 7

63 is 7 times as many as 9

63 = 7 x 9

Fill in the blanks.

14 is 7 times as many as **2**.

55 is 5 times as many as **11**.

90 is 9 times as many as **10**.

63 is 7 times as many as **9**.

Write the statement as a multiplication equation.

24 is 8 times as many as 3

24 = 8 x 3

132 is 12 times as many as 11

132 = 12 x 11

81 is 9 times as many as 9

81 = 9 x 9

Write the multiplicative equation as a multiplicative comparison.

30 = 6 x 5 **30 is 6 times as many as 5**

28 = 7 x 4 **28 is 7 times as many as 4**

Name: ANSWER KEY 4.OA.1

Multiplication Equations & Comparisons

1. **Solve each problem.**

27 is 9 times as many as 3.

54 is 6 times as many as 9.

16 is 4 times as many as 4.

36 is 12 times as many as 3.

28 is 4 times as many as 7.

49 is 7 times as many as 7.

2. **Write the statement as a multiplication equation.**

45 is 5 times as many as 9 45 = 5 x 9

33 is 3 times as many as 11 33 = 3 x 11

72 is 6 times as many as 12 72 = 6 x 12

63 is 9 times as many as 7 63 = 9 x 7

40 is 8 times as many as 5 _____

Name: ANSWER KEY 4.OA.1

Multiplication Equations & Comparisons

1. **Solve each problem.**

   18 is 3 times as many as ___6___.

   64 is 8 times as many as ___8___.

   55 is 11 times as many as ___5___.

2. **Write the statement as a multiplication equation.**

   48 is 6 times as many as 8 ___48 = 6 x 8___

   35 is 7 times as many as 5 ___35 = 7 x 5___

   24 is 4 times as many as 6 ___24 = 4 x 6___

3. **Write the multiplicative equation as a multiplicative comparison.**

   21 = 3 x 7 ___21 is 3 times as many as 7___

   72 = 9 x 8 ___72 is 9 times as many as 8___

   14 = 7 x 2 ___14 is 7 times as many as 2___

Name: ANSWER KEY **4.OA.2**

Directions: Solve each problem.

A restaurant sold 11 times as many hamburgers as they did salads. If they sold 7 salads, how many hamburgers did they sell?

77 hamburgers

Leonard brought 48 cookies to the party, and Marcus brought 12 cookies to the party. How many times more cookies did Leonard bring than Marcus?

4 times more

For a candy bar fundraiser, Brad earned 7 dollars, and Andy earned 4 times as much as Brad. How much money did Andy earn?

$28

Leslie collected 6 stamps every month for 8 months. How many stamps did Leslie collect?

48 stamps

A pumpkin patch sold 12 pumpkins on Thursday and 60 pumpkins on Friday. How many times more pumpkins did they sell on Friday than on Thursday?

5 times more

Name: ANSWER KEY 4.OA.2

Multiplication & Division Word Problems

1. A pumpkin patch sold 6 pumpkins on Thursday and 36 pumpkins on Friday. How many times more pumpkins did they sell on Friday than on Thursday? **6 times more**

2. A restaurant sold 27 hamburgers and 9 ice cream cones. How many times more hamburgers were sold than ice cream cones? **3 times more**

3. A flower shop has 48 daisies and 12 roses. How many times more daisies are there than roses? **4 times more**

4. Jake had soccer practice for 2 hours last month. Jake practiced 8 times more this month. How many hours did Jake practice this month? **16 hours**

5. Mitchell bought 7 packs of stickers with 11 stickers in each pack. How many stickers did Mitchell buy? **77 stickers**

6. Katie collected 8 stamps every month for 4 months. How many stamps did Katie collect? **32 stamps**

Name: ANSWER KEY 4.OA.2

Multiplication & Division Word Problems

1. Beth ate 6 pieces of candy on Monday and 24 pieces of candy on Tuesday. How many times more pieces of candy did Beth eat on Tuesday than on Monday? **4 times more**

2. For a candy bar fundraiser, Hank earned 9 dollars, and Brice earned 7 times as much as Hank. How much money did Brice earn? **$63**

3. There are 12 benches at the park. Each bench can hold 4 people. How many people can sit on the benches at the same time? **48 people**

4. Luke collected 11 coins for his coin collection, and Erin collected 44 coins. How many times more coins did Erin collect than Luke? **4 times more**

5. Andrew brought 32 brownies to the party, and Alan brought 8 brownies to the party. How many times more brownies did Andrew bring than Alan? **4 times more**

6. A restaurant sold 12 times as many pizzas as they did salads. If they sold 8 salads, how many pizzas did they sell? **96 pizzas**

Name: ANSWER KEY

4.OA.3

Directions: Solve each problem.

A classroom of 27 students orders 11 pizzas for a party. Each pizza is cut into 8 slices. If all the slices are distributed evenly, how many will each student get? How many will be left over?

3 slices per student
7 slices left over

Barbara has an unknown number of marbles, 'm'. She gives them all away to 6 friends who each get 4. Write both sides of this equation, using 'm' as a variable.

m ÷ 6 = 4

Ron's family spends $405 per month on gasoline. Approximately how much would Ron's family spend on gasoline every 365 days? ($480, $4,800, or $48,000)

$4,800

Washington Elementary is going to the zoo. The school has 356 students and 25 teachers who are going on the field trip. If each bus, can hold 72 passengers. How many busses will they need for their field trip?

6 busses

Walter's mother sends him to the grocery store with $22 to buy milk by the gallon. If milk costs $3 per gallon and Walter buys all the milk he can, how much money will he have left over?

$1 left over

Name: ANSWER KEY 4.OA.3

Multistep Word Problems

1. Rosemary drives 6 miles in 9 minutes. If she makes this drive 3 times per day, how many miles does she drive every day?

   18 miles

2. Stephanie has an unknown number of marbles, 'm'. She gives them all away to 5 friends who each get 8. Write both sides of this equation, using 'm' as a variable.

   m ÷ 5 = 8

3. Lewis's family spends $296 per month on groceries. Approximately how much would Lewis' family spend on groceries every 365 days? ($3,600, $36,000, or $360,000)

   $3,600

4. Mrs. McNair works as a seamstress making clothes. She can make 2 outfits in 3 hours. If she works for 9 hours, how many whole outfits can she make?

   6 outfits

5. Charles' mother sends him to the grocery store with $17 to buy milk by the gallon. If milk costs $3 per gallon and Charles buys all the milk he can, how much money will he have leftover?

   $2 left over

Name: ANSWER KEY 4.OA.3

Multistep Word Problems

1. A 55-gallon barrel is filled with water. It leaks out at a rate of 3 gallons per minute. How much water will be left in the barrel after 12 minutes?

   19 gallons

2. A horse weighs 2,145 pounds. Without doing any calculations, determine whether 6 horses would weigh closer to 12,000 pounds or 20,000 pounds.

   12,000 pounds

3. Dan gained 18 pounds over 6 months. How much weight did he gain per month?

   3 pounds

4. Bonnie and her 7 friends run a relay race totaling 21,349 feet. Each girl ran about (300, 3,000, or 30,000) feet.

   About 3,000 ft

5. A classroom of 23 students orders 9 pizzas for a party. Each pizza is cut into 8 slices. If all the slices are distributed evenly, how many will each student get? How many will be left over?

   Each student gets 3 pieces of pizza. There will be 3 pieces of pizza left.

Name: ANSWER KEY

4.OA.4

Directions: Solve each problem.

List all the factors for the following numbers.

18 **1, 2, 3, 6, 9, 18**

36 **1, 2, 3, 4, 6, 9, 12, 18, 36**

23 **1, 23**

40 **1, 2, 4, 5, 8, 10, 20, 40**

List the first five multiples for each number.

7 **7, 14, 21, 28, 35**

4 **4, 8, 12, 16, 20**

14 **14, 28, 42, 56, 70**

19 **19, 38, 57, 76, 95**

List all the factors for the following numbers.

44 **1, 2, 4, 11, 22, 44**

56 **1, 2, 4, 7, 8, 14, 28, 56**

9 **1, 3, 9**

60 **1, 2, 3, 4, 5, 6, 10, 12, 15, 20, 30, 60**

List the first five multiples for each number.

8 **8, 16, 24, 32, 40**

3 **3, 6, 9, 12, 15**

24 **24, 48, 72, 96, 120**

11 **11, 22, 33, 44, 55**

Circle all of the composite numbers and put boxes around all of the prime numbers.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30

Name: ANSWER KEY 4.OA.4

Factors & Multiples

1. **List all the factors for the following numbers.**

12 1, 2, 3, 4, 6, 12

49 1, 7, 49

28 1, 2, 4, 7, 14, 28

54 1, 2, 3, 6, 9, 18, 27, 54

30 1, 2, 3, 5, 6, 10, 15, 30

24 1, 2, 3, 4, 6, 8, 12, 24

2. **List the first five multiples for each number.**

6 12, 18, 24, 30, 36

11 22, 33, 44, 55, 66

5 10, 15, 20, 25, 30

13 26, 39, 52, 65, 78

8 16, 24, 32, 40, 48

15 30, 45, 60, 75, 90

Name: **ANSWER KEY** **4.OA.4**

Prime & Composite

1. **Circle all of the composite numbers and put boxes around all of the prime numbers.**

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Name: ANSWER KEY

4.OA.5

Directions: Solve each problem.

Complete each pattern.

Start at 14 and create a pattern with the rule add 9.

14, 23, 32, 41, 50

Start at 87 and create a pattern with the rule subtract 6.

87, 81, 75, 69, 63

Complete each pattern.

Start at 8 and create a pattern with the rule add 13.

8, 21, 34, 47, 60

Start at 62 and create a pattern with the rule subtract 7.

62, 55, 48, 41, 34

Write the rule for each pattern, and complete each pattern.

97, 92, 87, 82, 77, 72

Rule: Subtract 5

15, 28, 41, 54, 67, 80

Rule: Add 13

Write the rule for each pattern, and complete each pattern.

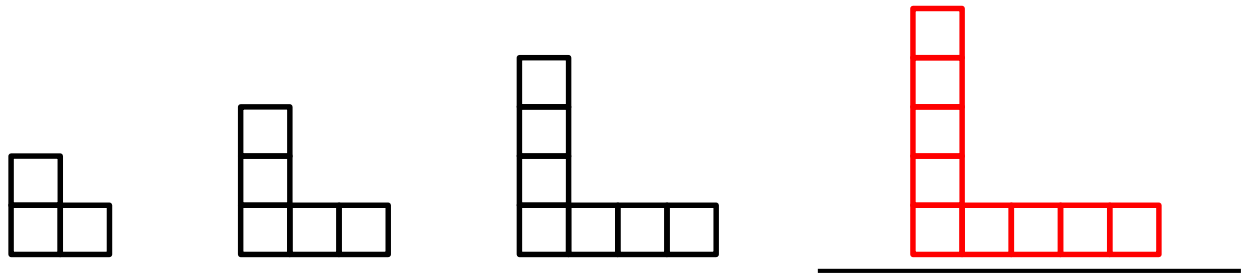
109, 101, 93, 85, 77, 69

Rule: Subtract 8

27, 31, 35, 39, 43, 47

Rule: Add 4

Draw the next figure in the pattern.



Name: ANSWER KEY 4.OA.5

Number Patterns

1. **Complete each pattern.**

   Start at 17 and create a pattern with the rule add 4.

   17, 21, 25, 29, 33, 37

   Start at 73 and create a pattern with the rule subtract 9.

   73, 64, 55, 46, 37, 28

   Start at 26 and create a pattern with the rule add 12.

   26, 38, 50, 62, 74, 86

   Start at 95 and create a pattern with the rule subtract 17.

   95, 78, 61, 44, 27, 10

2. **Write the rule for each pattern, and identify which number completes the sequence.**

   72, 66, 60, 54, **48**, **42** Rule: **Subtract 6**

   19, 32, 45, 58, **71**, **84** Rule: **Add 13**

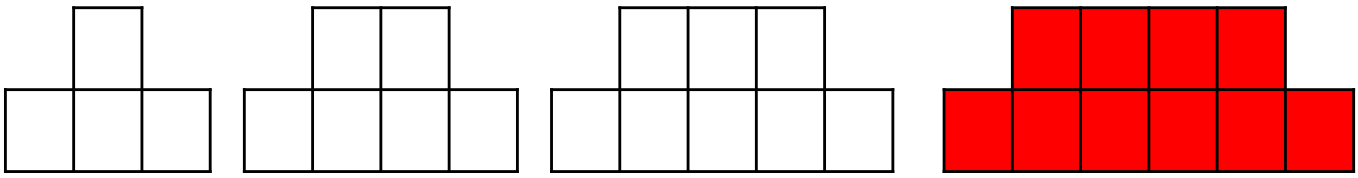
   37, 46, 55, 64, **73**, **82** Rule: **Add 9**

   84, 71, 58, 45, **32**, **19** Rule: **Subtract 13**

Name: ANSWER KEY **4.OA.5**

Number Patterns

1. **Draw the next figure in the pattern.**



2. **Create your own shape pattern.**

Answers will vary.

3. **Write the rule for each pattern, and identify which number completes the sequence.**

81, 75, 69, 63, **57**, **51**

Rule: **Subtract 6**

4. **Create your own number patterns.**

Answers will vary.

____, ____, ____, ____, ____, ____

Rule: _____

____, ____, ____, ____, ____, ____

Rule: _____