



Name _____

6.6 ALGEBRA

Multiply with 1 and 0

Find the product.

1. $6 \times 1 =$ _____

2. $0 \times 3 =$ _____

3. $1 \times 8 =$ _____

4. $4 \times 0 =$ _____

5. $9 \times 1 =$ _____

6. $0 \times 1 =$ _____

Use the table for 7–9.

7. Walt strings 1 pattern of yellow beads on his necklace. Write a multiplication sentence to show how many yellow beads he uses in all.

_____ \times _____ = _____

Color	Number of Beads
Red	6
Blue	2
Yellow	3
Green	4

8. Shoshona uses 1 pattern of red beads. Write a multiplication sentence to show how many red beads she uses in all.

_____ \times _____ = _____

9. Ella strings 1 pattern of green beads and 1 pattern of blue beads. How many beads does she use in all?

Problem Solving



10. There are 2 pancakes on each of 4 plates. The 4 people in the Matsui family eat all of their pancakes. Write a number sentence to show how many pancakes are left on the plates.

_____ \times _____ = _____

11. There are 3 frogs on each of 5 lily pads. Two frogs jump off of each lily pad. Write a multiplication sentence to show how many frogs are still on the lily pads.

_____ \times _____ = _____

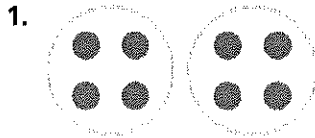
12. Frank puts 8 placemats on the table. Each placemat gets 1 plate. Which multiplication sentence shows how many plates there are?
- (A) $8 \times 1 = 8$
(B) $8 \times 8 = 64$
(C) $8 \times 0 = 0$
(D) $8 \times 1 = 1$
13. Julia has 9 boxes. There is 1 model car in each box. Which multiplication sentence shows how many model cars Julia has?
- (A) $0 \times 9 = 9$
(B) $1 \times 9 = 1$
(C) $9 \times 9 = 18$
(D) $9 \times 1 = 9$
14. Each basket hold 5 melons. Mr. Chavez buys 1 basket. How many melons does Mr. Chavez have?
- (A) 1
(B) 5
(C) 10
(D) 6
15. Noah sets out 7 baskets at the Farmers' Market. Each basket holds 1 watermelon. How many watermelons does Noah set out?
- (A) 14
(B) 7
(C) 8
(D) 1
16. **Multi-Step** Jayne has 1 box with 4 red crayons and 3 blue crayons. Which number sentence shows how many crayons Jayne has?
- (A) $1 \times 4 = 4$
(B) $1 \times 3 = 3$
(C) $1 \times 7 = 7$
(D) $3 \times 4 = 12$
17. **Multi-Step** Each box holds 6 black markers and 4 red markers. Derek has 0 boxes of markers. Which number sentence shows how many markers Derek has?
- (A) $10 \times 0 = 10$
(B) $0 \times 10 = 0$
(C) $10 \times 1 = 10$
(D) $10 \times 1 = 1$



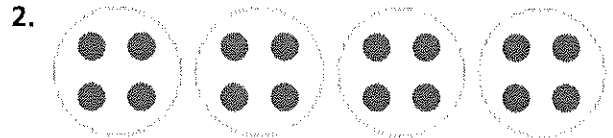
Name _____

7.1 Multiply with 2 and 4

Write a multiplication sentence for the model.



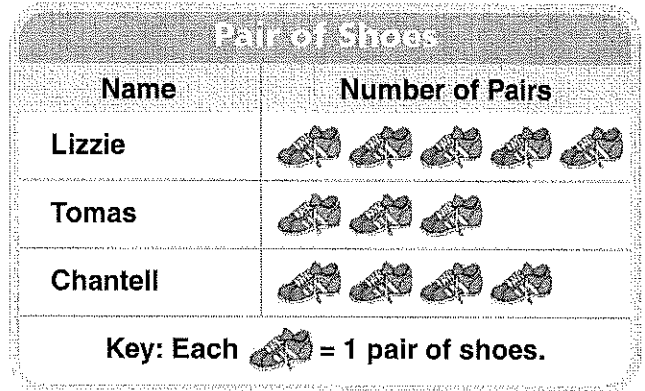
_____ × _____ = _____



_____ × _____ = _____

Use the pictograph for 3–4.

3. How many shoes do Lizzie and Chantell have in all? Show the steps you used to solve the problem.



4. Tomas buys another pair of shoes. How many shoes does he have now? Write a number sentence to solve.

_____ × _____ = _____

Problem Solving

5. Terry and Raul each draw 4 pictures. Two more students draw the same number of pictures. How many pictures are there in all? Write a number sentence to solve. Explain.

Fill in the bubble completely to show your answer.

6. Rory has 7 pairs of gloves. How many gloves does he have in all?
- (A) 7
(B) 14
(C) 2
(D) 17
7. Melinda has 2 pairs of boots. She buys 2 more pairs. How many boots does she have?
- (A) 6
(B) 4
(C) 8
(D) 12
8. Benji has 6 pencil boxes. Each box has a red, blue, yellow, and green pencil. How many pencils does Benji have?
- (A) 18
(B) 24
(C) 12
(D) 6
9. Ty writes 4×10 to show that he has 4 bunches of 10 flowers. Which is another way for Ty to show the product of 4×10 ?
- (A) $4 + 10$
(B) $2 \times 10 = 20$ and $2 \times 10 = 20$ then $20 + 20 = 40$
(C) $5 + 5 + 5 + 5$
(D) $2 \times 10 = 20$
10. **Multi-Step** Adam has 5 boxes of paints. Each box has 6 cans of paint. Adam uses 2 boxes of paint. How many cans of paint does Adam have now?
- (A) 3
(B) 13
(C) 18
(D) 12
11. **Multi-Step** A farmer has 6 bushels. He puts 2 bags of apples and 2 bags of pears in each bushel. How many bags of fruit are there altogether?
- (A) 24
(B) 12
(C) 10
(D) 18



Name _____

7.2 Multiply with 5 and 10

Complete the strip diagram to solve.

1. A toy store has 6 shelves with 5 game boxes on each shelf. How many game boxes are there?

--	--	--	--	--	--	--	--

2. A clerk sells 5 boxes of cards. Each box has 10 cards. How many cards are there?

--	--	--	--	--	--	--	--

Use the table for 3–5.

3. Jordy buys 5 small ticket books. How many tickets does Jordy have? Write a multiplication sentence to solve.

Carnival Ticket Books	
Size	Number of Tickets
Small	4
Medium	5
Large	8

4. The Dorsey family buys 5 medium books and 1 large book of tickets. What is the total number of tickets the Dorsey family has?

5. Sharon needs 15 tickets to ride the Big Roller Coaster. How many medium books of tickets should she buy?

Problem Solving



6. Candles come in boxes of 4. Ms. Lee buys 10 boxes of candles for a party. How many candles does Ms. Lee buy?

7. Ms. Lee sets up 9 tables. Each table seats 5 people. How many people can sit at the tables?

Fill in the bubble completely to show your answer.

8. Five students each borrow 4 books from the library. How many books do the students borrow?
- (A) 8
(B) 9
(C) 20
(D) 10
9. There are 10 relay teams on the playground. Each team has 3 students. How many students are on relay teams?
- (A) 10
(B) 31
(C) 13
(D) 30
10. A grocery store has 8 bags of snack packs on a shelf. Each bag has 5 snack packs. How many snack packs does the store have?
- (A) 58
(B) 85
(C) 40
(D) 50
11. Sunrise Goat Farm has 5 pens. Each pen has 9 goats. How many goats are on the farm?
- (A) 59
(B) 45
(C) 14
(D) 95
12. **Multi-Step** Karl is making 9 belts. He uses 5 beads for each belt. He has already made 4 belts. How many beads will Karl need to make the rest of the belts?
- (A) 25
(B) 45
(C) 18
(D) 20
13. **Multi-Step** Chris has 5 stacks of DVDs on a shelf. Each stack has 10 DVDs. If Chris adds 2 more identical stacks of DVDs to the shelves, how many DVDs will Chris have?
- (A) 20
(B) 50
(C) 17
(D) 70

Homework and Practice



TEKS Number and Operations—3.4.E, 3.4.K
Also 3.4.D, 3.5.B, 3.5.D
MATHEMATICAL PROCESSES 3.1.C, 3.1.D, 3.1.F

Name _____

7.3 Multiply with 3 and 6

Algebra Complete the table.

Multiply by 3.	
Factor	Product
1.	15
2. 7	

Multiply by 6.	
Factor	Product
3. 6	
4.	48

Use the table for 5–8.

5. Joella makes 6 craft stick birds. How many craft sticks does Joella use?

Craft Stick Animals	
Animal Shape	Number of Craft Sticks
Dog	5
Cat	8
Bird	6

6. Lebraun makes 3 dogs and 2 birds. Does he use more craft sticks for the birds or for the dogs?

7. Ariel makes 2 cats and 2 dogs. How many more craft sticks does she need to make the cats?

Problem Solving



8. Sam makes 3 dogs and 2 cats. Does he need more craft sticks for the dogs or for the cats? Explain.

Fill in the bubble completely to show your answer.

9. Each day Mr. Mosell drives a total of 8 miles to work and back. How many miles does Mr. Mosell drive in 5 days?
- (A) 45 miles
(B) 40 miles
(C) 13 miles
(D) 58 miles
10. Tanya walks 3 miles every day for one week. How many miles does Tanya walk in all?
- (A) 7 miles
(B) 15 miles
(C) 3 miles
(D) 21 miles
11. Terrel wants to use a 5s fact to multiply 6×8 . Which expression can Terrel use?
- (A) $5 \times 5 + 8$
(B) $5 \times 8 + 5$
(C) $5 \times 8 + 8$
(D) $6 \times 8 + 5$
12. Anita wants to use a 5s fact to multiply 6×3 . Which expression can Anita use?
- (A) $5 \times 3 + 3$
(B) $5 \times 3 \times 5$
(C) $5 \times 3 + 5$
(D) $5 \times 3 + 6$
13. **Multi-Step** Milo collects 6 boxes of shells. Each box holds 7 shells. Milo gives 2 boxes of shells to his friend. How many shells does Milo have left?
- (A) 30
(B) 42
(C) 14
(D) 28
14. **Multi-Step** Henley collects 3 eggs from each of the nests of 9 chickens. Henley uses 6 eggs to make breakfast. How many eggs does Henley have left?
- (A) 21
(B) 27
(C) 18
(D) 54

Homework and Practice



TEKS Number and Operations—3.4.K
Algebraic Reasoning—3.5.B Also 3.4.D, 3.4.E, 3.5.D
MATHEMATICAL PROCESSES 3.1.C, 3.1.E, 3.1.G

Name _____

8.1 Multiply with 7

Find the product.

1. $6 \times 7 =$ _____

2. $10 \times 7 =$ _____

3. $7 \times 3 =$ _____

4. $7 \times 9 =$ _____

5. $2 \times 7 =$ _____

6. $1 \times 7 =$ _____

7.
$$\begin{array}{r} 5 \\ \times 7 \\ \hline \end{array}$$

8.
$$\begin{array}{r} 7 \\ \times 4 \\ \hline \end{array}$$

9.
$$\begin{array}{r} 0 \\ \times 7 \\ \hline \end{array}$$

10.
$$\begin{array}{r} 8 \\ \times 7 \\ \hline \end{array}$$

11.
$$\begin{array}{r} 7 \\ \times 7 \\ \hline \end{array}$$

12.
$$\begin{array}{r} 7 \\ \times 6 \\ \hline \end{array}$$

Use the table for 13–15.

13. How many pails of food do the elephants eat in one week?

Animal	Number of Pails
Lions	4
Elephants	9
Zebras	7

14. If the zoo keepers increased the lion's feed by 2 pails, how many pails of food would the lions eat in one week?

15. How many more pails of food do the zebras eat in one week than the lions?

Problem Solving



16. Mark works 3 hours each day feeding the animals and 4 hours in the zoo store. How many hours does Mark work in 5 days? Explain.

17. Sudi serves pancakes at the town picnic. He puts 3 pancakes on each of 7 plates. How many pancakes does Sudi serve?
- (A) 10
(B) 21
(C) 28
(D) 20
18. Rosa buys 3 books and 4 magazines. Each one costs \$4. How much does Rosa spend on books and magazines?
- (A) \$28
(B) \$11
(C) \$12
(D) \$24
19. Nori uses 9 yards of yarn to make a cat toy. If she makes 7 toys, how many yards of yarn does Nori need?
- (A) 72 yards
(B) 16 yards
(C) 63 yards
(D) 56 yards
20. One trip on a sky ride at the zoo takes 8 minutes. How many minutes does the ride take for 7 trips?
- (A) 42 minutes
(B) 49 minutes
(C) 15 minutes
(D) 56 minutes
21. **Multi-Step** An album holds 6 photos on one page. A second album holds 4 photos on a page. If Nick fills 7 pages in each album, how many photos does Nick have in all?
- (A) 28
(B) 70
(C) 42
(D) 17
22. **Multi-Step** Alexander makes a tile design with 3 red tiles, 1 yellow tile and 3 purple tiles. If he makes 5 designs, how many tiles does Alexander need in all?
- (A) 30
(B) 18
(C) 35
(D) 12

Homework and Practice



TEKS Number and Operations—3.4.E, 3.4.K
Algebraic Reasoning—3.5.B Also 3.5.D
MATHEMATICAL PROCESSES 3.1.C, 3.1.G

Name _____

8.4 Multiply with 8

Complete the table.

Multiply by 4.	
1.	6
2.	9
3.	7

Multiply by 8.	
4.	5
5.	7
6.	8

Multiply by 5.	
7.	6
8.	3
9.	10

Problem Solving



Use the table for 10–12.

10. Jill is making 4 batches of punch. Write multiplication sentences to show how many total cups of strawberries and crushed ice Jill needs.

Party Punch	
Food or Juice	Cups
Apple Juice	8
Orange Juice	4
Strawberries	3
Crushed Ice	6

11. How many cups of apple juice will Jill need to make 8 batches of punch? **Explain** how you can use doubles to find the answer.

12. Webb wants to make 7 batches of punch. What strategy can you use to find how many cups of crushed ice he will need?

13. A florist is making 8 bouquets of flowers. She needs 7 roses for each bouquet. How many roses does the florist need?
- (A) 64
(B) 48
(C) 56
(D) 28
14. Elena has a bookshelf with 4 shelves. There are 8 books on each shelf. How many books does Elena have?
- (A) 48
(B) 32
(C) 40
(D) 36
15. A toy store sells train sets. Each set has 9 railroad cars in it. If the store sells 8 train sets in one day, how many railroad cars are sold?
- (A) 64
(B) 89
(C) 72
(D) 81
16. A chef is making 5 batches of potato salad. He needs 8 cups of dressing for each salad. How many cups of dressing does he need?
- (A) 58 cups
(B) 45 cups
(C) 40 cups
(D) 13 cups
17. **Multi-Step** Giselle buys 3 packs of baseball cards and 6 packs of soccer cards. Each pack has 8 cards in it. How many cards does Giselle buy?
- (A) 18
(B) 48
(C) 24
(D) 72
18. **Multi-Step** Jamal buys 4 sets of animal postcards and 5 sets of nature postcards. Each set has 6 cards. How many postcards does Jamal buy?
- (A) 30
(B) 56
(C) 54
(D) 64

Homework and Practice



TEKS Number and Operations—3.4.F, 3.4.K
Algebraic Reasoning—3.5.B Also 3.4.E, 3.5.D
MATHEMATICAL PROCESSES 3.1.C, 3.1.D, 3.1.F

Name _____

8.5 Multiply with 9

Find the product.

1. $9 \times 3 =$ _____

2. _____ $= 9 \times 6$

3. $4 \times 9 =$ _____

4. $7 \times 9 =$ _____

5. $9 \times 5 =$ _____

6. _____ $= 9 \times 9$

Problem Solving



Use the table for 7–9.

7. The number of points scored for which team can be found by multiplying 6×9 ?

8. The Huskies scored 45 points. What multiplication fact with 9 can be used to find the number of points?

10. A school bus has 2×9 girls and 27 boys. How many girls are on the bus? What multiplication fact can be used to find the number of boys?

Game Points Scored

Team	Number of points
Wildcats	36
Cougars	54
Huskies	45
Dolphins	63

9. Suppose the Dolphins score another 9 points. What multiplication fact with 9 can be used to find the total points?

11. There are 4 students on each relay team in a race. There are 36 students in all. What multiplication fact can be used to show how many relay teams there are?

12. An octopus has 8 arms. How many arms do 9 octopuses have?
- (A) 81
(B) 63
(C) 89
(D) 72
13. A starfish has 5 arms. How many arms do 9 starfish have?
- (A) 45
(B) 50
(C) 35
(D) 59
14. Miss Lincoln has a total of 27 students in her class. Which fact can be completed to show the number of students?
- (A) $3 + 9$
(B) 3×9
(C) 4×9
(D) 4×8
15. Deanna puts 63 postcards into groups of 7. Which number sentence shows the number of postcards?
- (A) $8 \times 7 = 63$
(B) $7 + 9 = 63$
(C) $8 \times 9 = 63$
(D) $7 \times 9 = 63$
16. **Multi-Step** There are 3 girls and 6 boys at a table in art class. Each student paints 3 pictures. How many pictures do the students paint in all?
- (A) 12
(B) 27
(C) 18
(D) 21
17. **Multi-Step** Frank makes a tile design with 4 rows of 9 tiles. If he adds 3 more rows to the tiles, how many tiles will he have in his design?
- (A) 54
(B) 36
(C) 16
(D) 63