



TABE Math-E PAXEN

Unit-3 Multiply and Divide
Whole Numbers

Lesson 14
Multiplication $N \times 10$

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Some graphics may not have copied well during the scan process.

Math-E - Lesson 14 – Multiplication

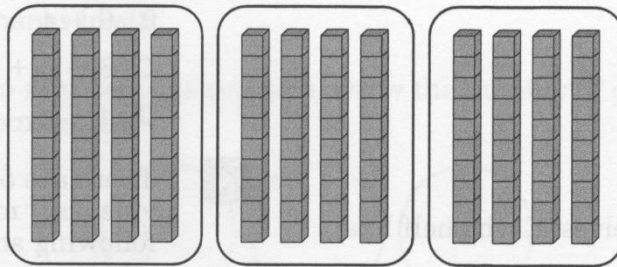
You can use place value to help multiply 1-digit numbers by multiples of 10.

Example $3 \times 40 = \underline{\hspace{2cm}}$

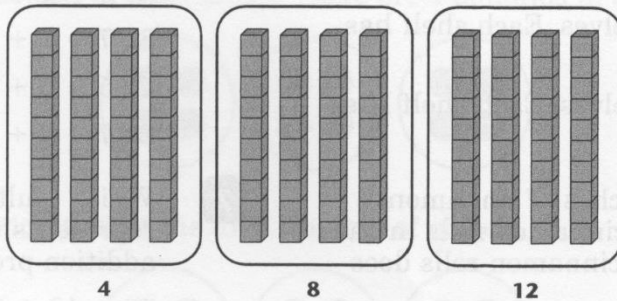
1) Think of the problem as an equal groups problem.

3 groups of 40, or 3 groups of 4 tens

2) Model the equal groups of 10.



3) Count the total number of tens.



There are 12 tens.

4) Multiply by 10. Notice that the product is the whole number of tens counted, with a zero added to the end.

$$\underline{12} \times 10 = \underline{120}$$

Test Example

1. Solve: $6 \times 30 = \underline{\hspace{2cm}}$

A. 30

B. 90

C. 180

D. 190

1. C There are 18 tens.

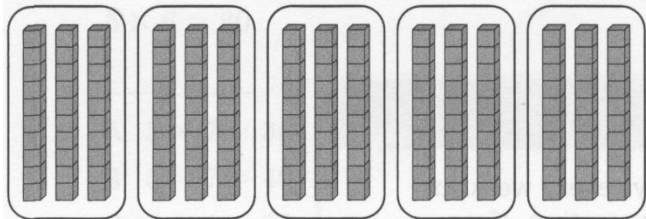
Hint

Multiply the whole number by the first digit of the multiple of 10. Then add a zero to the product.

Math-E - Lesson 14 – Multiplication

Read each question. Select the correct answer.

- 1 What is 80×4 ?
A. 340
B. 320
C. 120
D. 40
- 2 What is the total value of 7 groups of 30?
A. 21
B. 40
C. 100
D. 210
- 3 Mariah buys 2 concert tickets. Each ticket costs \$70. How much does Mariah spend on tickets?
A. \$14
B. \$72
C. \$90
D. \$140
- 4 What is 9×60 ?
A. 630
B. 540
C. 480
D. 450
- 5 Use the base ten blocks to find the product of 30 and 5.
- 6 Rashad buys 3 boxes of granola bars. Each box contains 30 granola bars. How many granola bars does Rashad buy?
A. 30
B. 60
C. 90
D. 190
- 7 What is the value of 7 groups of 40?
A. 280
B. 210
C. 130
D. 110
- 8 At a company, there are 8 departments with 50 employees each. How many employees are there at the company?
A. 130
B. 140
C. 300
D. 400
- 9 What is the value of 6 groups of 60?
A. 320
B. 360
C. 420
D. 540
- 10 Jonah delivers 5 boxes at each stop. If he makes 20 stops, how many boxes does he deliver?
A. 10
B. 80
C. 100
D. 120



- A. 15
B. 80
C. 150
D. 180

Math-E - Lesson 14 – Multiplication

Lesson 14

Multiply 1-Digit Numbers by Multiples of 10

(3.NBT.3)

- 1. B.** Multiply 8 by 4 tens to get 32 tens. Multiply 32 by 10 to get 320.
- 2. D.** Multiply 7 by 3 tens to get 21 tens. Multiply 21 by 10 to get 210.
- 3. D.** Multiply 2 by 7 tens to get 14 tens. Multiply 14 by 10 to get 140. Mariah spends \$140 on tickets.
- 4. B.** Multiply 9 by 6 tens to get 54 tens. Multiply 54 by 10 to get 540.
- 5. C.** Multiply 5 by 3 tens to get 15 tens. Multiply 15 by 10 to get 150.
- 6. C.** Multiply 3 by 3 tens to get 9 tens. Multiply 9 by 10 to get 90. Rashad bought 90 granola bars.
- 7. A.** Multiply 7 by 4 tens to get 28 tens. Multiply 28 by 10 to get 280.
- 8. D.** Multiply 8 by 5 tens to get 40 tens. Multiply 40 by 10 to get 400. There are 400 employees at the company.
- 9. B.** Multiply 6 by 6 tens to get 36 tens. Multiply 36 by 10 to get 360.
- 10. C.** Multiply 5 by 2 tens to get 10 tens. Multiply 10 by 10 to get 100. Jonah delivers 100 boxes.

Math-E - Practice 14 - Multiplication

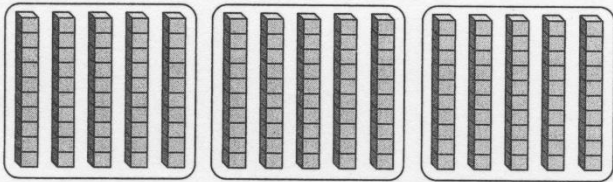
1 What is 7×20 ?

- A. 120
- B. 140
- C. 210
- D. 720

2 What is 50×9 ?

- A. 45
- B. 360
- C. 420
- D. 450

3 Which two of these describe the base ten model?



- A. 40×3
- B. 3×60
- C. 3×50
- D. 3 groups of 5 tens
- E. 5 groups of 3 tens
- F. 3 groups of 6 tens

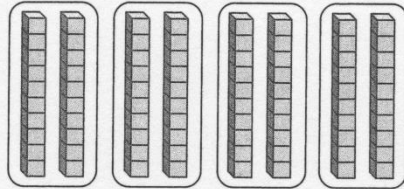
4 What is the value of 6 groups of 40?

- A. 240
- B. 280
- C. 350
- D. 360

5 What is the product of 60 and 2?

- A. 12
- B. 100
- C. 120
- D. 180

6 Use the base ten blocks to find the product of 20 and 4.

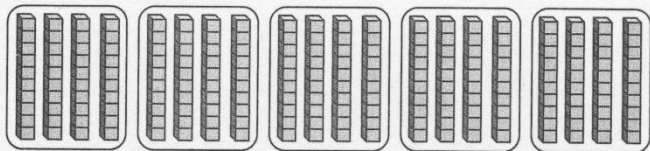


- A. 80
- B. 60
- C. 40
- D. 20

7 What is the value of 9 groups of 30?

- A. 360
- B. 270
- C. 180
- D. 90

8 Which two of these describe the base ten model?



- A. 40×6
- B. 4×40
- C. 5×40
- D. 40 groups of 5
- E. 6 groups of 10
- F. 5 groups of 40

9 There are three periods in a hockey game. Each period is 20 minutes long. What is the total length of a hockey game?

- A. 20 min
- B. 40 min
- C. 60 min
- D. 80 min

Math-E - Practice 14 Multiplication

- 10 Camilla does four sets of 40 squats at the gym. How many squats does Camilla do in all?
- A. 40 squats
 - B. 80 squats
 - C. 100 squats
 - D. 160 squats
- 11 Samar stacks boxes on shipping pallets at a warehouse. He fills seven pallets with 50 boxes on each pallet. How many boxes does Samar stack altogether?
- A. 350 boxes
 - B. 360 boxes
 - C. 420 boxes
 - D. 560 boxes
- 12 A restaurant has 50 tables. Each table can seat four people. How many people can be seated at the restaurant at the same time?
- A. 100 people
 - B. 200 people
 - C. 400 people
 - D. 500 people
- 13 Tyrell buys two concert tickets priced at \$80 each. How much money does Tyrell spend on concert tickets?
- A. \$320
 - B. \$240
 - C. \$180
 - D. \$160
- 14 The nurses at an urgent care facility treat 60 patients each day. The facility is open seven days a week. How many patients do the nurses treat each week?
- A. 320 patients
 - B. 360 patients
 - C. 420 patients
 - D. 460 patients
- 15 Naomi withdraws money from an ATM and receives five \$20-bills. How much money does Naomi withdraw from her account?
- A. \$20
 - B. \$50
 - C. \$100
 - D. \$200
- 16 Tevin works four shifts per week, and each shift is 10 hours long. How many hours does Tevin work each week?
- A. 40 hr
 - B. 30 hr
 - C. 20 hr
 - D. 10 hr
- 17 Catalina buys four boxes of pens for the office. Each box contains 30 pens. How many pens does Catalina buy in all?
- A. 30 pens
 - B. 80 pens
 - C. 100 pens
 - D. 120 pens
- 18 A company has a corporate baseball league. There are eight teams with 20 employees on each team. How many employees participate in the baseball league?
- A. 120 employees
 - B. 160 employees
 - C. 180 employees
 - D. 200 employees
- 19 Heather buys nine packs of hotdogs for a company picnic. Each pack contains 10 hotdogs. How many hotdogs does Heather buy in all?
- A. 10 hotdogs
 - B. 60 hotdogs
 - C. 90 hotdogs
 - D. 100 hotdogs
- 20 Joseph buys three bundles of yarn to knit a scarf. Each bundle contains 70 yards of yarn. How many yards of yarn does Joseph buy?
- A. 210 yd
 - B. 240 yd
 - C. 280 yd
 - D. 350 yd

Math-E - Practice 14 – Multiplication

Practice 14

Multiply 1-Digit Numbers by Multiples of 10

pp. 32–33

3.NBT.3

1. B. Multiply 7 by 2 tens to get 14 tens. Multiply 14 by 10 to get 140.
2. D. Multiply 9 by 5 tens to get 45 tens. Multiply 45 by 10 to get 450.
3. C, D. 3 groups of 5 tens = 3×50 .
4. A. Multiply 6 by 4 tens to get 24 tens. Multiply 24 by 10 to get 240.
5. C. Multiply 2 by 6 tens to get 12 tens. Multiply 12 by 10 to get 120.
6. A. Multiply 4 by 2 tens to get 8 tens. Multiply 8 by 10 to get 80.
7. B. Multiply 9 by 3 tens to get 27 tens. Multiply 27 by 10 to get 270.
8. C, F. 5 groups of 40 = 5×40

9. C. Multiply 3 by 2 tens to get 6 tens. Multiply 6 by 10 to get 60. A hockey game is 60 minutes long.
10. D. Multiply 4 by 4 tens to get 16 tens. Multiply 16 by 10 to get 160. Camilla does 160 squats.
11. A. Multiply 7 by 5 tens to get 35 tens. Multiply 35 by 10 to get 350. Samar stacks 350 boxes.
12. B. Multiply 4 by 5 tens to get 20 tens. Multiply 20 by 10 to get 200. The restaurant can seat 200 people.
13. D. Multiply 2 by 8 tens to get 16 tens. Multiply 16 by 10 to get 160. Tyrell spends \$160 on concert tickets.
14. C. Multiply 7 by 6 tens to get 42 tens. Multiply 42 by 10 to get 420. The nurses treat 420 patients each week.
15. C. Multiply 5 by 2 tens to get 10 tens. Multiply 10 by 10 to get 100. Naomi withdraws \$100.
16. A. Multiply 4 by 1 ten to get 4 tens. Multiply 4 by 10 to get 40. Tevin works 40 hours per week.
17. D. Multiply 4 by 3 tens to get 12 tens. Multiply 12 by 10 to get 120. Catalina buys 120 pens.
18. B. Multiply 8 by 2 tens to get 16 tens. Multiply 16 by 10 to get 160. There are 160 employees who participate in the corporate baseball league.
19. C. Multiply 9 by 1 ten to get 9 tens. Multiply 9 by 10 to get 90. Heather buys 90 hotdogs.
20. A. Multiply 3 by 7 tens to get 21 tens. Multiply 21 by 10 to get 210. Joseph buys 210 yards of yarn.