



Helping With Math

Multiplying One-Digit Whole Numbers by Multiples of 10



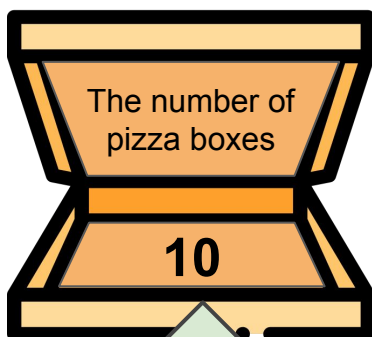
GRADE 3



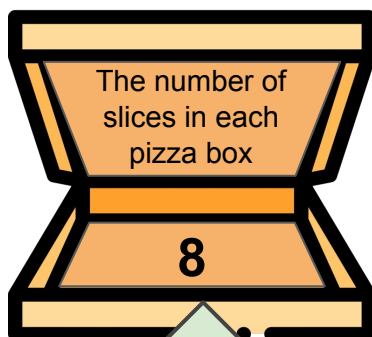
Multiplication is all about Equal Groups. We can multiply one-digit whole numbers by multiple of 10. Digit is any one of the ten symbols 0-9 used to write numbers. Meanwhile, multiples of 10 are all the products of multiplying by 10.



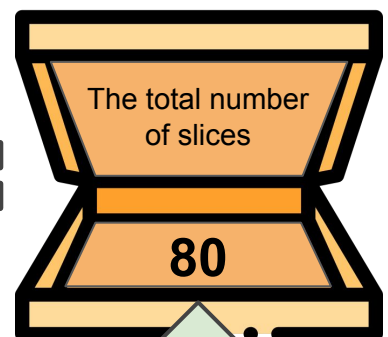
Find the total number of pizza slices.



10 groups of pizza with equal number of slices



8 slices of pizza in each group



Therefore, the product of 10×8 is 80



Multiplying One-digit Number by Multiples of 10 using Strategies

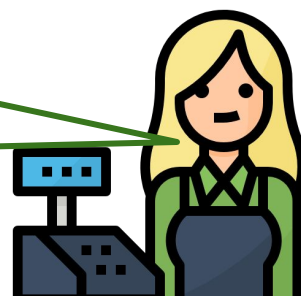
ONE-DIGIT WHOLE NUMBERS

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

MULTIPLES OF 10

10, 20, 30, 40, 50, 60, 70, 80, 90

We can multiply one-digit numbers by multiples of 10 using strategies based on place value and operation properties



Example: 2×50

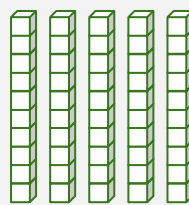
Using Operation Property:

$$\begin{aligned} 2 \times 50 &= ? \\ &= 2 \times (5 \times 10) \\ &= (2 \times 5) \times 10 \\ &= 10 \times 10 \\ &= 100 \end{aligned}$$

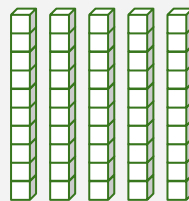
If one of the factors is a multiple of 10, the product will be a multiple of 10.

Using Place Value:

2 groups of 5 tens



1st group



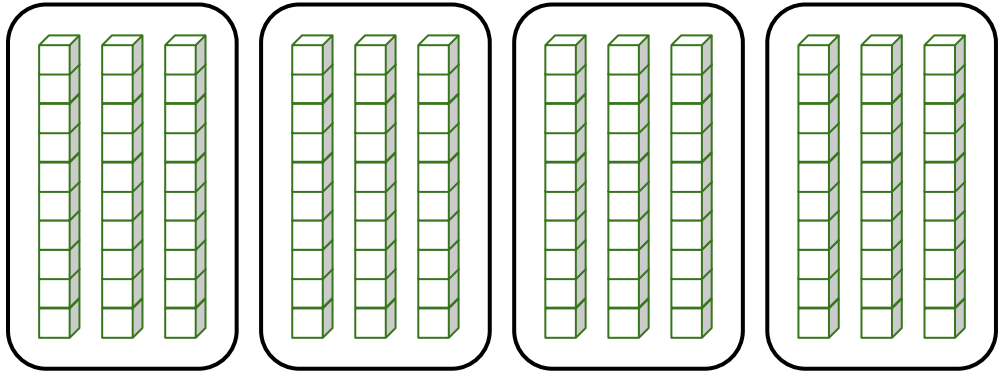
2nd group

2×5 tens
 10 tens = 100

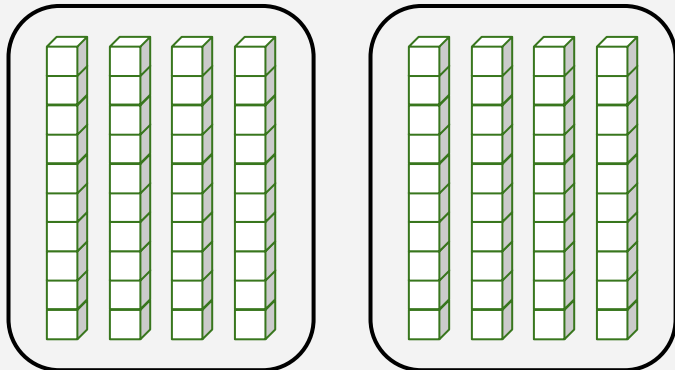


Draw in tens rods to prove the solution to the following number sentences

1. $4 \times 30 = \underline{120}$



2. $2 \times 40 = \underline{80}$



3. $5 \times 20 = \underline{\hspace{2cm}}$



TABLE OF ACTIVITIES

1. The Boxes
2. Product of Pizza
3. Crossnumber Puzzle
4. Burger10
5. Fast-Trivia
6. Matching Product
7. Cut and Paste
8. Bingo!
9. Two Lies
10. Spin and Solve



THE BOXES

There are six customers. How much would each customer pay if a box of pizza costs \$8 and a box of donut costs \$10? Complete the equations based on the figure.

1.  = x 8 = \$

2.  = x = \$20

3.  = 20 x = \$

4.  = x 10 = \$

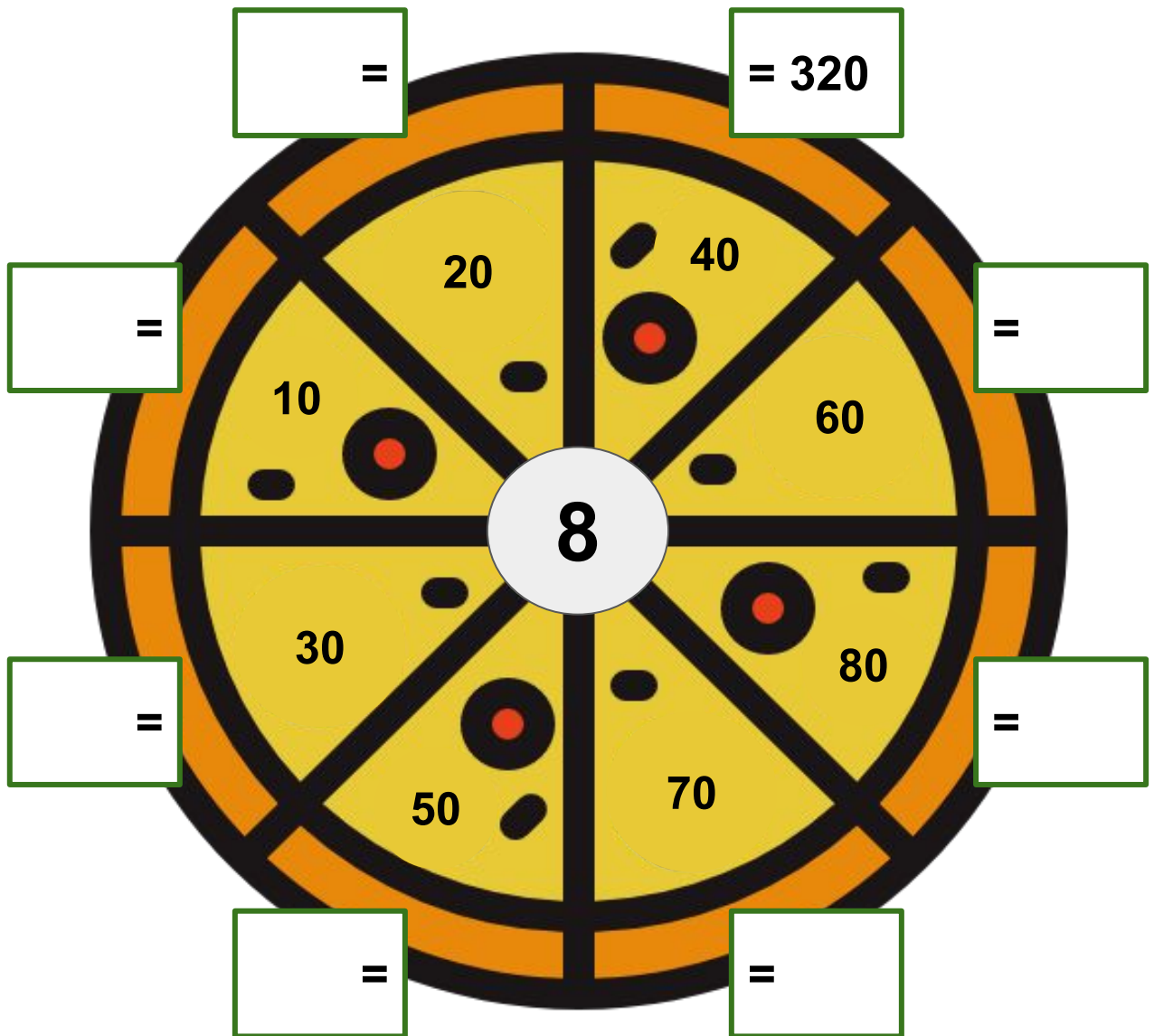
5.  = x = \$40

6.  = 1 x = \$



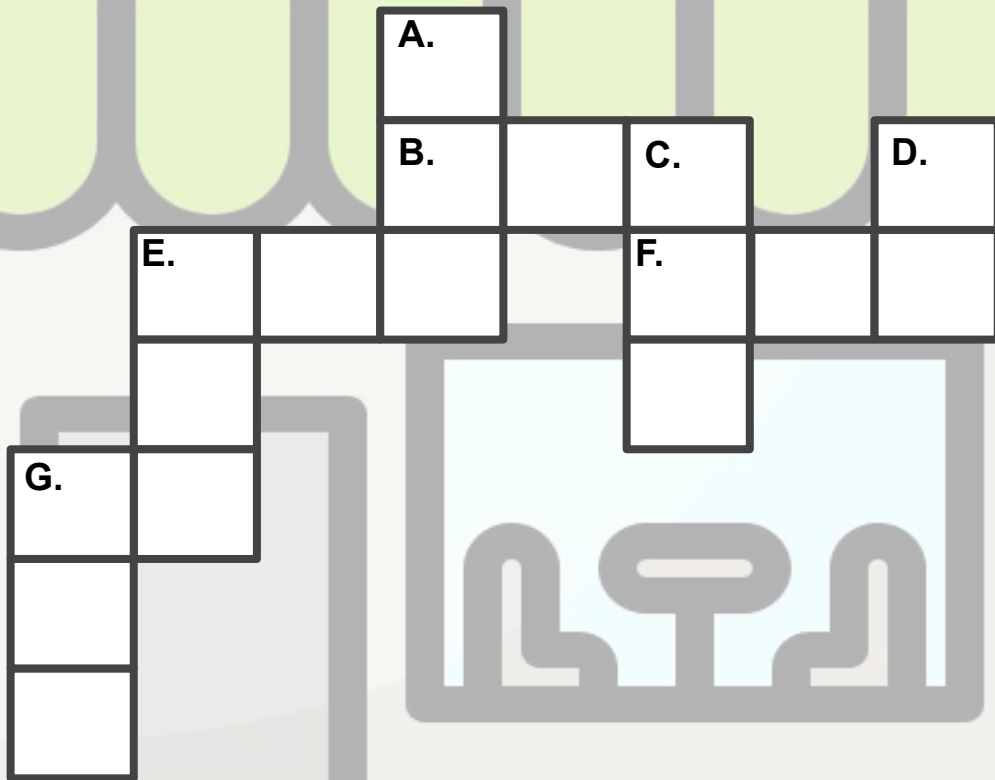
PRODUCT OF PIZZA

Anna and her friends loves pizza. A box of pizza costs \$8. Multiply the numbers on each slice by the amount of pizza. Write your answer on the box.



CROSSNUMBER PUZZLE

Help the fast food owner find out how much they sold. Find the answer by multiplying the amount of each item by the number of items sold. Write each product in the crossnumber puzzle.



ACROSS:



B. \$90 X 3 = _____



E. \$50 X 9 = _____



F. \$60 X 4 = _____



G. \$20 X 3 = _____

DOWN:



A. \$40 X 8 = _____



C. \$20 X 1 = _____



D. \$10 X 6 = _____



E. \$80 X 5 = _____



G. \$90 X 7 = _____



BURGER10

There are nine customers at Burger10. Help the cashier compute how much should each customer pay if the special burger costs \$10. Shade the box that shows the right answer.



1 $10 \times 7 = ?$

70 71 107

2 $10 \times 2 = ?$

12 22 20

3 $10 \times 6 = ?$

96 60 106

4 $10 \times 3 = ?$

300 39 30

5 $10 \times 9 = ?$

90 70 190

6 $10 \times 5 = ?$

15 50 10

7 $10 \times 8 = ?$

80 380 240

8 $10 \times 1 = ?$

10 11 31

9 $10 \times 4 = ?$

40 410 41



FAST-TRIVIA

Help Jordan learn the fast food trivia by solving the equations. Match the letter of the problem to its correct number at the bottom of the page.

What is the world's Largest Toy Distributor?

M $5 \times 30 = \underline{\hspace{2cm}}$

A $90 \times 2 = \underline{\hspace{2cm}}$

S $4 \times 70 = \underline{\hspace{2cm}}$

O $20 \times 8 = \underline{\hspace{2cm}}$

L $1 \times 50 = \underline{\hspace{2cm}}$

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

N $60 \times 5 = \underline{\hspace{2cm}}$

C $20 \times 5 = \underline{\hspace{2cm}}$

D $9 \times 10 = \underline{\hspace{2cm}}$



The answer is:

150

100

90

160

300

180

50

120

280

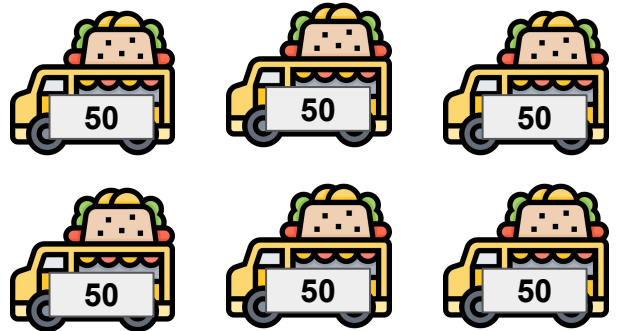


MATCHING PRODUCT

Help the food cart vendors find their matching products by solving the equations. Match the answer to the food cart with similar product.

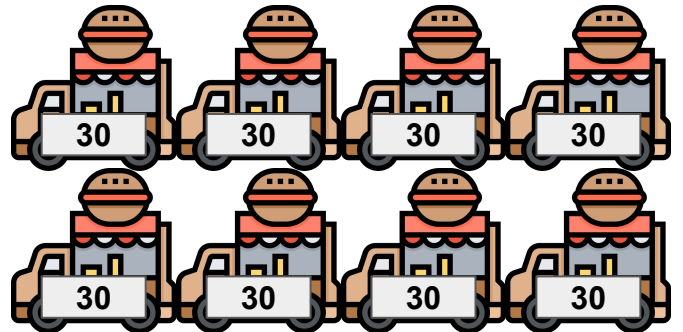
1 $1 \times 80 = \underline{\quad}$

A



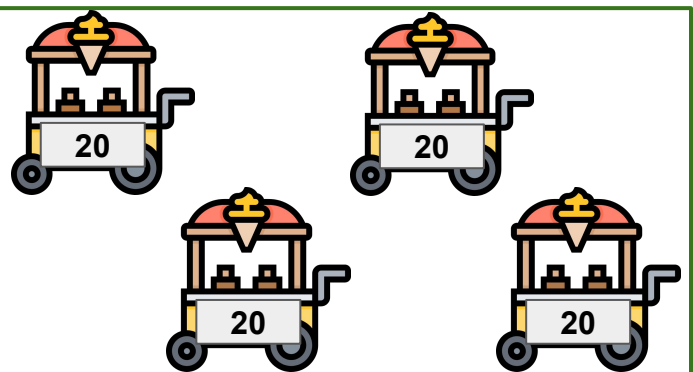
2 $5 \times 60 = \underline{\quad}$

B



3 $6 \times 40 = \underline{\quad}$

C



CUT AND PASTE

Olivia wants to eat in a fast food restaurant, but she is not allowed unless she's done with her homework. Help her solve the following equations using Place Value strategy. Cut your answers from the choices below and paste them to the space provided.

1 $2 \times 70 =$ $=$ $=$

2 $60 \times 8 =$ $=$ $=$

3 $5 \times 60 =$ $=$ $=$

4 $9 \times 90 =$ $=$ $=$

5 $30 \times 5 =$ $=$ $=$



2 x 7 tens

3 tens x 5

5 x 6 tens

6 tens x 8

9 x 9 tens

30 tens

14 tens

48 tens

15 tens

81 tens

150

810

300

140

480



BINGO!


Help the cashier of the fast food restaurant cross-out the boxes of equations that have correct answers.


$3 \times 10 = 31$	$2 \times 30 = 60$	$50 \times 2 = 200$	$6 \times 60 = 360$	$9 \times 80 = 980$
$8 \times 70 = 700$	$90 \times 2 = 180$	$10 \times 2 = 210$	$50 \times 8 = 400$	$7 \times 30 = 20$
$6 \times 10 = 100$	$50 \times 3 = 130$	$4 \times 20 = 80$	$40 \times 1 = 41$	$10 \times 5 = 150$
$60 \times 4 = 240$	$70 \times 4 = 20$	$80 \times 5 = 85$	$6 \times 30 = 170$	$3 \times 90 = 270$
$70 \times 2 = 270$	$8 \times 40 = 320$	$60 \times 9 = 540$	$7 \times 10 = 70$	$2 \times 20 = 60$




TWO LIES

Given the value of burger, fries and drinks that Jayden bought. Use your math skills to determine which of the three statements below is true! Explain your answer.

 = 360

 = 90

 = 4

1



2



3



Answer:



SPIN AND SOLVE

In a fast food restaurant, each customer is given a chance to spin two roulettes and solve to get a free meal. Write the multiplication problem below.

CUSTOMER #1



CUSTOMER #2



CUSTOMER #3



CUSTOMER #4

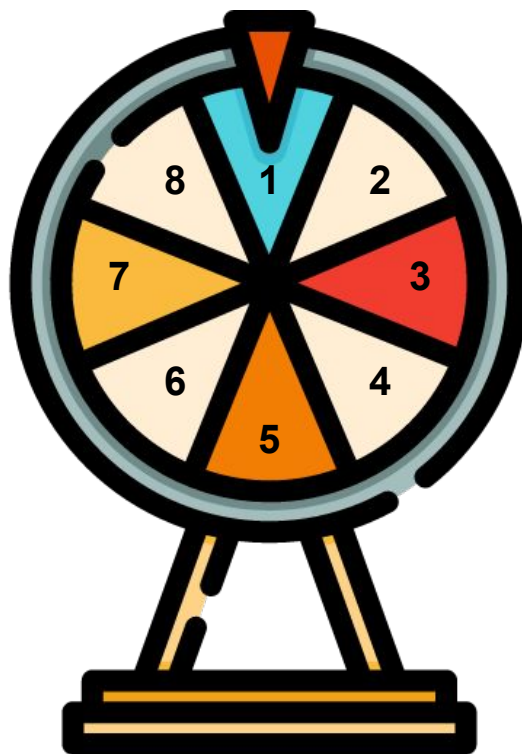
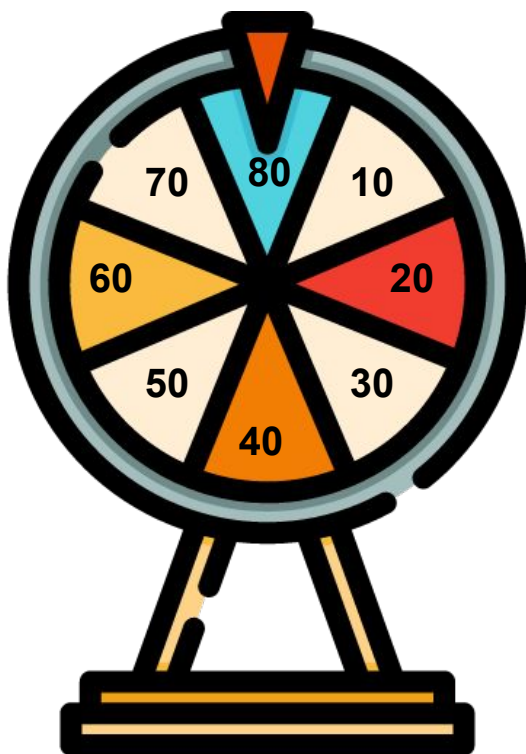


CUSTOMER #5



CUSTOMER #6





ANSWER GUIDE

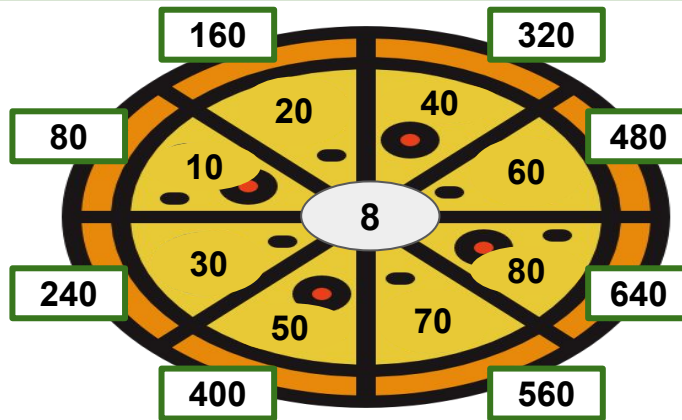
Activity 1

1. 10, 80
2. 2, 10

3. 8, 160
4. 3, 30

5. 4, 10
6. 10, 10

Activity 2



Activity 3

Across: B. 270 E. 450 F. 240 G. 60
Down: A. 320 C. 20 D. 60 E. 400 G. 630

Activity 4

1. 70
2. 20
3. 60
4. 30
5. 900
6. 50
7. 80
8. 10
9. 40

Activity 5

MCDONALDS



ANSWER GUIDE

Activity 6

1. C
2. A
3. B

Activity 7

1. $2 \times 7 \text{ tens} = 14 \text{ tens} = 140$
2. $6 \text{ tens} \times 8 = 48 \text{ tens} = 480$
3. $5 \times 6 \text{ tens} = 30 \text{ tens} = 300$
4. $9 \times 9 \text{ tens} = 81 \text{ tens} = 810$
5. $3 \text{ tens} \times 5 = 15 \text{ tens} = 150$

Activity 8

$2 \times 30 = 60$	$3 \times 90 = 270$
$6 \times 60 = 360$	$8 \times 40 = 320$
$90 \times 2 = 180$	$60 \times 4 = 240$
$50 \times 8 = 400$	$60 \times 9 = 540$
$4 \times 20 = 80$	$7 \times 10 = 70$

Activity 9

2

Activity 10

Answer varies depending on the spin.



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