

Multiplication

Practice 1 Mental Multiplication

Multiply mentally. Fill in the missing numbers.

- Example -

Find 4×7 .

 4×7 is the same as 7×4 .

So,
$$4 \times 7 = \underline{28}$$
.





1. Find 3×9 .

 3×9 is the same as 9×3 .

So,
$$3 \times 9 =$$
 _____.

2. Find 5×7 .

 5×7 is the same as 7×5 .

So,
$$5 \times 7 =$$
_____.

3. Find 9×8 .

 9×8 is the same as 8×9 .

$$S_{0}$$
, $9 \times 8 =$ _____.

119

Multiply mentally. Fill in the missing numbers.

Example
$$3 \times 50 = 3 \times 5 \text{ tens}$$

$$- 15 \text{ tens}$$

$$3 \times 50 = 3 \times 5 \text{ tens}$$

$$= \frac{15}{150} \text{ tens}$$

$$= \frac{150}{150}$$

5.
$$7 \times 40 = 7 \times 4 \text{ tens}$$

= _____ tens
= _____

7.
$$8 \times 60 = 8 \times 6 \text{ tens}$$

= _____ tens
= _____

Multiply mentally.

Practice 2 Multiplying Without Regrouping

Fill in the missing numbers.

– Example ––––

$$2 \times 13 = ?$$

 $2 \times \underline{}$ ones = $\underline{}$ ones

 $2 \times \underline{\hspace{1cm}}$ ten $= \underline{\hspace{1cm}}$ tens

So,
$$2 \times 13 = \underline{26}$$
.

13

26

3 4 2

1. $2 \times 342 = ?$

 $2 \times \underline{\hspace{1cm}}$ ones $= \underline{\hspace{1cm}}$ ones

 $2 \times \underline{\hspace{1cm}}$ tens $= \underline{\hspace{1cm}}$ tens

2 × _____ hundreds = ____ hundreds

 S_{0} , $2 \times 342 =$ _____.

- 2. $3 \times 312 = ?$
 - $3 \times \underline{\hspace{1cm}}$ ones $= \underline{\hspace{1cm}}$ ones
- 3 1 2 \times

- $3 \times \underline{\hspace{1cm}}$ ten = $\underline{\hspace{1cm}}$ tens
- $3 \times \underline{\hspace{1cm}}$ hundreds = $\underline{\hspace{1cm}}$ hundreds
- So, $3 \times 312 =$ _____.
- $4 \times 201 = ?$ 3.
 - $4 \times \underline{\hspace{1cm}}$ one $= \underline{\hspace{1cm}}$ ones
- 2 0 1 X

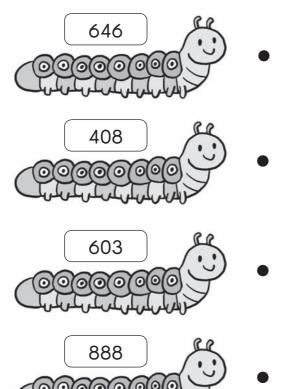
- 4 × _____ tens
 - = _____ tens
- $4 \times \underline{\hspace{1cm}}$ hundreds = $\underline{\hspace{1cm}}$ hundreds
- S_{0} , $4 \times 201 = _____$.

Multiply.

4. 3 2 1 × 3

Match each caterpillar to its leaf.

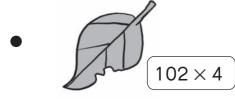
7.











Multiply and complete.

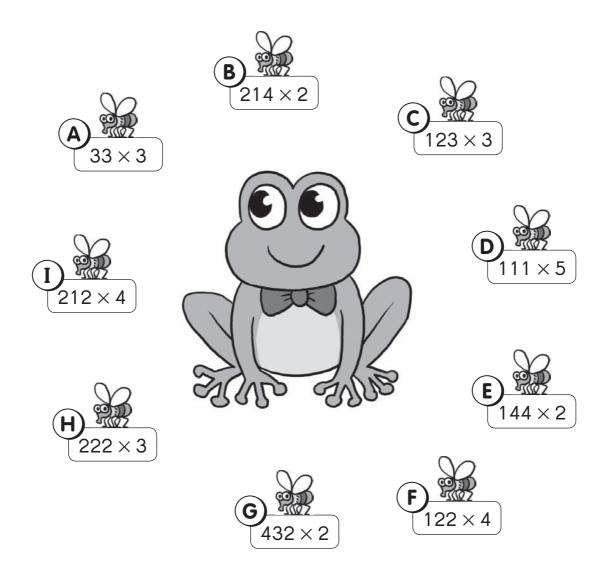
8. Frederick Frog is hungry.

He is out hunting for his lunch.

Clever Frederick Frog eats only non-poisonous flies.

Flies carrying a product greater than 400 are non-poisonous.

Which flies should Frederick Frog eat?



Frederick Frog should eat flies ___

Solve.

Example -

Curtis scores 22 points in a game.

He wants to score the same number of points for every game.

How many points does he hope to score in 4 games?

$$22 \times 4 = 88$$

88

He hopes to score 88 points in 4 games.

9. 143 people ride the train every hour. How many people ride the train in 2 hours?

10. A bakery sells 213 muffins a day. How many muffins does it sell in 3 days?

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11. A website has 232 hits in the first week.

In the second week, the website has the same number of hits.

How many hits does the website have in both weeks?

12. A grocery store sells 202 cartons of milk a week. How many cartons of milk does it sell in 4 weeks?

Practice 3 Multiplying Ones, Tens, and Hundreds with Regrouping

Fill in the missing numbers.

– Example ———

$$3 \times 26 = ?$$

1

Step 1 Multiply the ones by 3.

$$3 \times \underline{}$$
 ones = $\underline{}$ ones

Regroup the ones.

$$18$$
 ones = 1 ten 8 ones

Step 2 Multiply the tens by 3.

$$3 \times \underline{\hspace{1cm}}$$
 tens = $\underline{\hspace{1cm}}$ tens

Add the tens.

$$\frac{1}{\text{ten}} + \frac{6}{\text{tens}} = \frac{7}{\text{tens}}$$

So,
$$3 \times 26 = \underline{78}$$
.

1. $5 \times 16 = ?$

Step 1 Multiply the ones by 5.

 $5 \times \underline{\hspace{1cm}}$ ones = $\underline{\hspace{1cm}}$ ones

Regroup the ones.

_____ ones = _____ tens ____ ones

Step 2 Multiply the tens by 5.

 $5 \times \underline{\hspace{1cm}}$ ten = $\underline{\hspace{1cm}}$ tens

Add the tens.

_____ tens + ____ tens = ____ tens

So, 5 × 16 = _____.

2. $4 \times 82 = ?$

8 2

× 4

Step 1 Multiply the ones by 4.

4 × _____ ones = ____ ones

Step 2 Multiply the tens by 4.

 $4 \times \underline{\hspace{1cm}}$ tens = $\underline{\hspace{1cm}}$ tens

Regroup the tens.

_____ tens = _____ hundreds _____ tens

So, $4 \times 82 =$ ______.



3. $5 \times 78 = ?$

7 8 5

- Step 1 Multiply the ones by 5.
 - $5 \times \underline{\hspace{1cm}}$ ones $= \underline{\hspace{1cm}}$ ones

Regroup the ones.

_____ ones = _____ tens _____ ones

Step 2 Multiply the tens by 5.

 $5 \times \underline{\hspace{1cm}}$ tens = $\underline{\hspace{1cm}}$ tens

Add the tens.

_____ tens + ____ tens = ____ tens

Regroup the tens.

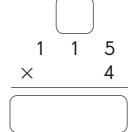
_____ tens = _____ hundreds _____ tens

So, $5 \times 78 =$ _____.

4. $4 \times 115 = ?$

Step 1 Multiply the ones by 4.

4 × _____ ones = ____ ones



Regroup the ones.

_____ ones = _____ tens ____ ones

Step 2 Multiply the tens by 4.

4 × ______ ten = _____ tens

Add the tens.

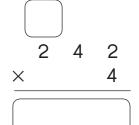
_____ tens + ____ tens = ____ tens

Step 3 Multiply the hundreds.

4 × _____ hundred = ____ hundreds

So, $4 \times 115 =$ ______.

5. $4 \times 242 = ?$



Step 1 Multiply the ones by 4.

4 × _____ ones = ____ ones

Step 2 Multiply the tens by 4.

4 × _____ tens = ____ tens

Regroup the tens.

_____ tens = _____ hundred _____ tens

Step 3 Multiply the hundreds by 4.

 $4 \times \underline{\hspace{1cm}}$ hundreds = $\underline{\hspace{1cm}}$ hundreds

Add the hundreds.

_____ hundred + ____ hundreds

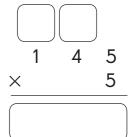
= _____ hundreds

 S_{0} , $4 \times 242 =$ ______.

6. $5 \times 145 = ?$

Step 1 Multiply the ones by 5.

5 × _____ ones = ____ ones



Regroup the ones.

_____ ones = _____ tens ____ ones

Step 2 Multiply the tens by 5.

 $5 \times \underline{\hspace{1cm}}$ tens = $\underline{\hspace{1cm}}$ tens

Add the tens.

_____ tens + ____ tens = ____ tens

Regroup the tens.

_____ tens = _____ hundreds _____ tens

Step 3 Multiply the hundreds by 5.

 $5 \times \underline{\hspace{1cm}}$ hundred = $\underline{\hspace{1cm}}$ hundreds

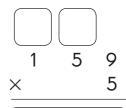
Add the hundreds.

_____ hundreds + ____ hundreds

= _____ hundreds

So,
$$5 \times 145 =$$
______.

 $5 \times 159 = ?$ **7.**



Step 1 Multiply the ones by 5.

 $5 \times \underline{\hspace{1cm}}$ ones $= \underline{\hspace{1cm}}$ ones

Regroup the ones.

 $_{\rm max}$ ones = $_{\rm max}$ tens $_{\rm max}$ ones

Step 2 Multiply the tens by 5.

 $5 \times \underline{\hspace{1cm}}$ tens = $\underline{\hspace{1cm}}$ tens

Add the tens.

_____ tens + ____ tens = ____ tens

Regroup the tens.

_____ tens = _____ hundreds _____ tens

Step 3 Multiply the hundreds by 5.

 $5 \times \underline{\hspace{1cm}}$ hundred = $\underline{\hspace{1cm}}$ hundreds

Add the hundreds.

_____ hundreds + _____ hundreds

= _____ hundreds

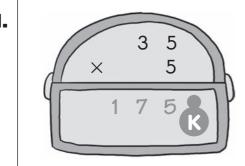
So,
$$5 \times 159 =$$
_____.

Practice 4 Multiplying Ones, Tens, and Hundreds with Regrouping

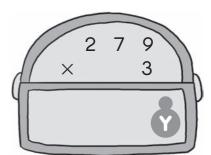
Multiply and complete.

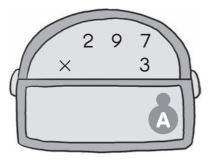
Example -

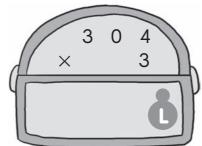
1.

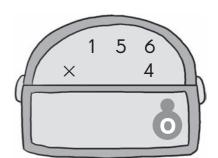




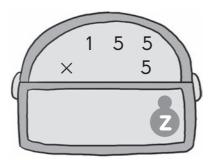


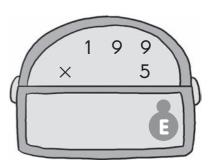












What key cannot unlock treasure chests?

Write the letters which match the answers to find out.

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Solve.

Example -

Gina reads 84 pages of her book in a day. How many pages does Gina read in 5 days?

 $84 \times 5 = 420$

Gina reads 420 pages in 5 days.

187 cars are in a parking lot.Each car has 4 wheels.How many wheels do the cars have in all?

3. 198 students attend a school.
Each student carries 3 books.
How many books do they carry in all?

4. Jill feeds her pet hamster 5 food pellets each day. How many food pellets does she feed her hamster in 165 days?

Multiply.

5.
$$450 \times 2 =$$

7.
$$259 \times 3 =$$

Complete.

- **9.** Circle the chest with the greatest product.
- **10.** Underline the chest with the least product.







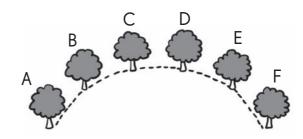


Solve.

Then circle the chest with the correct answer.

11. Keith runs from Tree A to B to C, to D to E, then to F. The trees are planted 134 meters apart from each other. How far does Keith run in all?

Keith runs _____ meters in all.









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Write the steps to your answer.

Multiply 243 by 2.

Example				
Step 1	Multiply 3 ones by 2. 2×3 ones = 6 ones	2 4 3 × 2 6		
Step 2	Multiply 4 tens by 2. 2×4 tens = 8 tens	2 4 3 × 2 8 6		
Step 3	Multiply 2 hundreds by 2. 2×2 hundreds = 4 hundreds	2 4 3 × 2		
$50, 2 \times 243 = 486.$		486		
Multiply 3	323 by 3.	3 2 3 × 3		
Step 2				
Step 3				



Put On Your Thinking Cap!



Challenging Practice

Fill in the missing numbers.

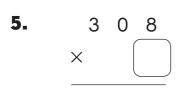
1.

2.

3.

4.

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6.

7.

1 6

8.



Solve.

Frank has 100 geese and cows on his farm. The animals have a total of 340 legs. How many geese and cows does Frank have?



Geese (2 legs)	Cows (4 legs)	Total number of legs	Correct (√) / Wrong (X)
$50 \times 2 = 100$	$50 \times 4 = 200$	100 + 200 = 300	X
$60 \times 2 = 120$	$40 \times 4 = 160$	120 + 160 = 280	X

Frank has _____ geese and ____ cows.