

WARM-UP

Review. :

1. Odd and even numbers. Adding and multiplying odd and even numbers.
2. Geometric shapes. Quadrilaterals, rectangles, squares. Perimeter, perimeter of composite shapes.
3. Algebraic expressions



1. What is the missing number?

a) $6 + 6 + 6 + 6 + 6 + 6 = 3 \times 6 +$

b) $42 \div 7 = 54 \div$

2.

- a) There are 8 pieces of chocolate in the box. How many pieces are there is 7 boxes?
- b) 72 lollipops are shared equally among 8 children. How many lollipops will each child get?
- c) 5 durians are sold for \$8. How much will 20 durians cost?

REVIEW

3.

Both A stand for the same digit. What is A?

$$\begin{array}{r} 2A06 \\ - 134A \\ \hline 1458 \end{array}$$

4.

The difference between two numbers is 385.

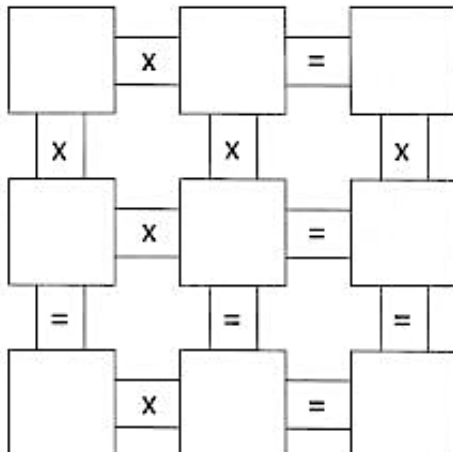
What is the bigger number if the smaller number is 615?

5.

Michael inflated 116 balloons. He inflated 28 more red balloons than green balloons. How many red and green balloons did he inflate?

6.

Fill in the boxes, using numbers 1,2,2,3,3,4,8,12,24



Multiplication without regrouping

To multiply a 3-digit number, we start from the ones, then the tens and lastly the hundreds.

Find the product of 312 and 3.

$$\begin{array}{r}
 312 \\
 \times 3 \\
 \hline
 936
 \end{array}$$

Multiply from right to left.

Step 1: Multiply the ones.
2 ones \times 3 = 6 ones

Step 2: Multiply the tens.
1 ten \times 3 = 3 tens

Step 3: Multiply the hundreds.
3 hundreds \times 3 = 9 hundreds

The product of 312 and 3 is 936.

7.

Multiply

a)

$$\begin{array}{r}
 40 \\
 \times 2 \\
 \hline
 \end{array}$$

b)

$$\begin{array}{r}
 23 \\
 \times 3 \\
 \hline
 \end{array}$$

c)

$$\begin{array}{r}
 52 \\
 \times 4 \\
 \hline
 \end{array}$$

d)

$$\begin{array}{r}
 143 \\
 \times 2 \\
 \hline
 \end{array}$$

8.

Multiply. Write the correct number in each box.

a) $132 \times 3 = \boxed{}$

b) $304 \times 2 = \boxed{}$

Multiplication with regrouping

When we multiply, if the product of the digits in each place is 10 or greater, we **regroup**.

10 ones = 1 ten

10 tens = 1 hundred

10 hundreds = 1 thousand

Find the product of 475 and 3.

$$\begin{array}{r} ^2 4 ^1 7 5 \\ \times 3 \\ \hline \end{array}$$

Multiply from
right to left.

1 4 2 5

Step 1: Multiply the ones.

5 ones \times 3 = 15 ones

Regroup the ones.

15 ones = 1 ten 5 ones

Step 2: Multiply the tens.

7 tens \times 3 = 21 tens

21 tens + 1 ten = 22 tens

Regroup the tens.

22 tens = 2 hundreds 2 tens

Step 3: Multiply the hundreds.

4 hundreds \times 3 = 12 hundreds

12 hundreds + 2 hundreds = 14 hundreds

Regroup the hundreds.

14 hundreds = 1 thousand 4 hundreds

The product of 475 and 3 is 1425.

9.

a)

$$\begin{array}{r} 39 \\ \times 2 \\ \hline \\ \hline \end{array}$$

b)

$$\begin{array}{r} 48 \\ \times 7 \\ \hline \\ \hline \end{array}$$

c)

$$\begin{array}{r} 56 \\ \times 4 \\ \hline \\ \hline \end{array}$$

d)

$$\begin{array}{r} 65 \\ \times 7 \\ \hline \\ \hline \end{array}$$

10.

Write the correct answer in each box.

a) $34 \times 8 =$

b) $73 \times 9 =$

c) $120 \times 6 =$

d) $204 \times 7 =$

11.

Write the missing number in each box

a) $48 \times 6 = 40 \times 6 +$

b) $105 \times 8 = 100 \times 8 +$

c) $1000 -$ $= 25 \times 4$

d) $98 \times 7 = 100 \times 7 -$

Challenge yourself

12.

Arrange the digits 5,0,9,4 in the boxes below to get the maximal product

$$\begin{array}{r} \square \square \square \\ \times \quad \square \\ \hline \\ \hline \end{array}$$