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NUMBERS

6

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BYJU'S
THE LEARNING APP

Class 4 & 5



NUMBERS SUMMARY

FACTOR

- A **factor** of a given number is every number that **divides** that number **exactly**.
- Number **1** and the **number itself** are always factors of any number.

MULTIPLES

- Multiples are numbers that result when we multiply one whole number by another whole number.

PRIME NUMBERS

- A **Prime number** has exactly **2 factors**, the **number itself** and **1**. In other words, the prime number can be divided only by 1 and by itself.
- **0** and **1** are **not** prime numbers.

COMPOSITE NUMBERS

- A **Composite number** has **at least one more factor** than the number itself or 1.
- In fact, all whole numbers that are not prime are composite **except** for **1** and **0**, which are neither prime nor composite.

COMMON FACTORS

- When two (or more) numbers have **the same factor**, that factor is called a **common factor**.

FACTOR TREE

- A factor tree is a representation of breaking down a larger number into its factors.

HIGHEST COMMON FACTOR (H.C.F.)

- The **Highest Common Factor (H.C.F.)** of two (or more) numbers is the largest number that divides both the numbers evenly.
- In other words, the H.C.F is the largest of all the common factors.

LOWEST COMMON MULTIPLE (L.C.M.).

- The **Lowest Common Multiple (L.C.M.)** is the **smallest number that is a common multiple** of two or more numbers.

ADDITION PRACTICE

See how many of the following addition problems you can solve in 3 minutes.

$$\begin{array}{r} 523 \\ + 416 \\ \hline \end{array}$$

$$\begin{array}{r} 380 \\ + 214 \\ \hline \end{array}$$

$$\begin{array}{r} 129 \\ + 730 \\ \hline \end{array}$$

$$\begin{array}{r} 650 \\ + 37 \\ \hline \end{array}$$

$$\begin{array}{r} 918 \\ + 251 \\ \hline \end{array}$$

$$\begin{array}{r} 362 \\ + 536 \\ \hline \end{array}$$

$$\begin{array}{r} 627 \\ + 352 \\ \hline \end{array}$$

$$\begin{array}{r} 440 \\ + 59 \\ \hline \end{array}$$

$$\begin{array}{r} 145 \\ + 544 \\ \hline \end{array}$$

$$\begin{array}{r} 703 \\ + 184 \\ \hline \end{array}$$

$$\begin{array}{r} 629 \\ + 340 \\ \hline \end{array}$$

$$\begin{array}{r} 900 \\ + 27 \\ \hline \end{array}$$

$$\begin{array}{r} 348 \\ + 111 \\ \hline \end{array}$$

$$\begin{array}{r} 752 \\ + 237 \\ \hline \end{array}$$

$$\begin{array}{r} 456 \\ + 220 \\ \hline \end{array}$$

$$\begin{array}{r} 663 \\ + 315 \\ \hline \end{array}$$

$$\begin{array}{r} 747 \\ + 132 \\ \hline \end{array}$$

$$\begin{array}{r} 573 \\ + 426 \\ \hline \end{array}$$

$$\begin{array}{r} 331 \\ + 548 \\ \hline \end{array}$$

$$\begin{array}{r} 602 \\ + 374 \\ \hline \end{array}$$

$$\begin{array}{r} 228 \\ + 630 \\ \hline \end{array}$$

$$\begin{array}{r} 183 \\ + 616 \\ \hline \end{array}$$

$$\begin{array}{r} 704 \\ + 134 \\ \hline \end{array}$$

$$\begin{array}{r} 560 \\ + 428 \\ \hline \end{array}$$

$$\begin{array}{r} 175 \\ + 417 \\ \hline \end{array}$$

$$\begin{array}{r} 329 \\ + 551 \\ \hline \end{array}$$

$$\begin{array}{r} 768 \\ + 123 \\ \hline \end{array}$$

$$\begin{array}{r} 447 \\ + 34 \\ \hline \end{array}$$

$$\begin{array}{r} 646 \\ + 345 \\ \hline \end{array}$$

$$\begin{array}{r} 539 \\ + 202 \\ \hline \end{array}$$

$$\begin{array}{r} 375 \\ + 308 \\ \hline \end{array}$$

$$\begin{array}{r} 924 \\ + 49 \\ \hline \end{array}$$

$$\begin{array}{r} 683 \\ + 117 \\ \hline \end{array}$$

$$\begin{array}{r} 586 \\ + 206 \\ \hline \end{array}$$

$$\begin{array}{r} 405 \\ + 266 \\ \hline \end{array}$$

$$\begin{array}{r} 736 \\ + 248 \\ \hline \end{array}$$

$$\begin{array}{r} 167 \\ + 253 \\ \hline \end{array}$$

$$\begin{array}{r} 573 \\ + 159 \\ \hline \end{array}$$

$$\begin{array}{r} 849 \\ + 73 \\ \hline \end{array}$$

$$\begin{array}{r} 392 \\ + 428 \\ \hline \end{array}$$

$$\begin{array}{r} 743 \\ + 168 \\ \hline \end{array}$$

$$\begin{array}{r} 667 \\ + 35 \\ \hline \end{array}$$

$$\begin{array}{r} 423 \\ + 789 \\ \hline \end{array}$$

$$\begin{array}{r} 390 \\ + 745 \\ \hline \end{array}$$

$$\begin{array}{r} 274 \\ + 839 \\ \hline \end{array}$$

$$\begin{array}{r} 355 \\ + 48 \\ \hline \end{array}$$

$$\begin{array}{r} 639 \\ + 169 \\ \hline \end{array}$$

$$\begin{array}{r} 524 \\ + 677 \\ \hline \end{array}$$

MULTIPLYING 2 DIGIT NUMBERS



$$\begin{array}{r} 85 \\ \times 13 \\ \hline 255 \\ 850 \\ \hline 1105 \end{array}$$

$$\begin{array}{r} 95 \\ \times 38 \\ \hline 760 \\ 2850 \\ \hline 3610 \end{array}$$



MULTIPLY. REGROUP IF NEEDED.

$$\begin{array}{r} 97 \\ \times 30 \\ \hline \end{array}$$

$$\begin{array}{r} 58 \\ \times 46 \\ \hline \end{array}$$

$$\begin{array}{r} 85 \\ \times 34 \\ \hline \end{array}$$

$$\begin{array}{r} 72 \\ \times 47 \\ \hline \end{array}$$

$$\begin{array}{r} 97 \\ \times 18 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ \times 21 \\ \hline \end{array}$$

$$\begin{array}{r} 92 \\ \times 38 \\ \hline \end{array}$$

$$\begin{array}{r} 44 \\ \times 12 \\ \hline \end{array}$$

$$\begin{array}{r} 83 \\ \times 49 \\ \hline \end{array}$$

$$\begin{array}{r} 62 \\ \times 29 \\ \hline \end{array}$$

$$\begin{array}{r} 81 \\ \times 51 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ \times 29 \\ \hline \end{array}$$

$$\begin{array}{r} 65 \\ \times 23 \\ \hline \end{array}$$

$$\begin{array}{r} 58 \\ \times 25 \\ \hline \end{array}$$

$$\begin{array}{r} 47 \\ \times 32 \\ \hline \end{array}$$

MATHS CROSSWORD!

Fill in the blanks of each crossword puzzle to make the multiplication equations true.



2	x		=	6
				x
	x	1	=	
				=
	x	24	=	

	x	5	=	30
x				
8	x	4	=	
=				
	x	24	=	

	x	7	=		
x					
11					
=					
22					
	5	x		=	
			=		
			42		
	3	x	12	=	
x					
	x			=	90

DIVISION PROBLEMS



1. Tom receives ₹150 every month for allowance. He puts ₹70 of his allowance into a piggy bank until his piggy bank has ₹1190. How many months has he been saving part of his allowance?
2. Miss Jane collected ₹60 each from her students for their upcoming field trip. If all of her students went on the field trip she would collect ₹1920. How many students are in Miss Jane's class?
3. Mr. Peter is also planning for his class to go on the same trip. He collects ₹60 from each of his students too, but one of his students could only pay ₹30 making his total ₹2190. How many students are in his class?
4. Anne gets ₹200 every week for lunch money. She sets aside ₹20 every school day. How many weeks did it take for her to save up ₹650?
5. Sally is selling raffle tickets for ₹40. She collects a total of ₹2840. How many tickets did she sell?



PRACTICING DIVISION PROBLEMS!

Place numbers in the correct spaces
of a division function to solve each word problem.

1. Thirty-eight kids are riding the bus. Half are girls.
How many boys are on the bus?

<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

2. There are twenty-seven bananas in nine equal
bunches. How many pieces are there in a bunch?

<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

3. Thirty-five players are in teams of five.
How many teams are there?

<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

4. A group of forty students plans to have a pizza party.
One pizza feeds four students.
How many pizzas will they need to buy?

<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

5. A four-man relay team ran around the track in
forty-eight seconds. All ran the same amount of
time. How many seconds did each runner run?

<input type="text"/>	<input type="text"/>
<input type="text"/>	<input type="text"/>

6. The Brown family is going on a long road trip across
several states. They will drive for forty-two hours total.
Each day, they will drive six hours.
How many days will their trip take?

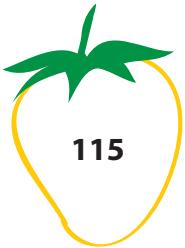
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7. Big Wong Restaurant holds sixty-four people.
Every table in the restaurant is made for four people.
How many tables are in the restaurant?

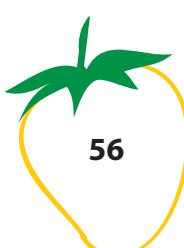
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MANGO DIVISION

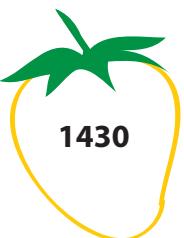
Any number with a ones digit of 0, 2, 4, 6, or 8, is divisible by 2.
Circle the numbers in the mangoes that are divisible by 2.



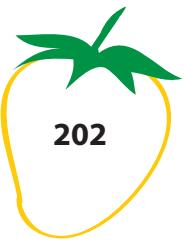
115



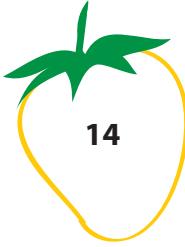
56



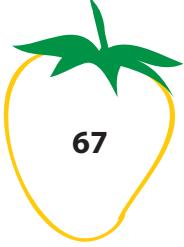
1430



202



14



67



123



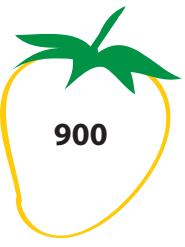
789



826



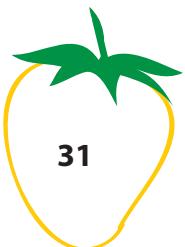
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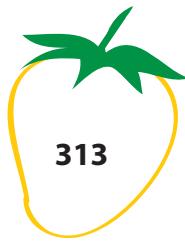
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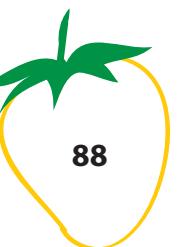
9998



31



313



88



7120

DIVISION WITH REMAINDERS

Put the remainder in fraction format.

$$32 \div 11 =$$

$$33 \div 14 =$$

$$40 \div 21 =$$

$$42 \div 13 =$$

$$35 \div 12 =$$

$$39 \div 10 =$$

$$45 \div 22 =$$

$$41 \div 15 =$$

$$49 \div 16 =$$

$$\begin{array}{r} 50 \\ \div 23 \\ \hline \end{array}$$

$$\begin{array}{r} 55 \\ \div 19 \\ \hline \end{array}$$

$$\begin{array}{r} 48 \\ \div 31 \\ \hline \end{array}$$

$$\begin{array}{r} 59 \\ \div 18 \\ \hline \end{array}$$

$$\begin{array}{r} 56 \\ \div 20 \\ \hline \end{array}$$

$$\begin{array}{r} 46 \\ \div 17 \\ \hline \end{array}$$

$$\begin{array}{r} 51 \\ \div 22 \\ \hline \end{array}$$

$$\begin{array}{r} 43 \\ \div 21 \\ \hline \end{array}$$

$$\begin{array}{r} 60 \\ \div 25 \\ \hline \end{array}$$

$$\begin{array}{r} 57 \\ \div 29 \\ \hline \end{array}$$

$$\begin{array}{r} 62 \\ \div 30 \\ \hline \end{array}$$

$$\begin{array}{r} 65 \\ \div 32 \\ \hline \end{array}$$

DIVISION TRICKS!

To divide numbers that end in zeroes, divide the rest of the numbers. Then, count the zeroes and add them to the answer.

Examples: $2400 \div 2 = ?$ $2 = 12$.

First divide 24 by

There are two zeroes.

Write 2 zeroes after 12.

Therefore, $2400 \div 2 = 1200$.

$350 \div 7$

$1100 \div 11$

$2800 \div 4$

$6400 \div 8$

$45000 \div 5$

$360 \div 6$

$1440 \div 12$

$3330 \div 333$

$1320 \div 6$