

Numbers All Around Us



Quick Review

- ▶ We add, subtract, multiply, or divide with numbers to solve problems. Addition, subtraction, multiplication, and division are *operations*.

When the numbers in a problem are large, we use a calculator.

- ▶ This table shows the numbers of people who attended football games in October. What is the total number of people who attended the games? Use a calculator.

Date	Number of People
Oct. 5	2542
Oct. 12	1967
Oct. 19	2038
Oct. 26	1872

To find how many people attended the games, add:

$$2542 + 1967 + 2038 + 1872 = 8419$$

There were 8419 people who attended the football games.

- ▶ Estimate to check if the answer is reasonable.

$$2500 + 2000 + 2000 + 1900 = 8400$$

8419 is close to 8400, so the answer is reasonable.

Try These

1. Suki is stacking 48-kg boxes in a freight elevator. The elevator can hold a maximum of 456 kg. How many boxes can Suki stack in the elevator?

2. A package of dental floss has 175 m of floss. Dr. Pierre bought 150 packages to give to his patients. How many metres of dental floss is that?

Practice

1. A daily newspaper has a circulation of 3 679 000 copies per day. If 1 day's papers are distributed evenly among 13 cities, how many copies would each city receive?

2. Manny's dog spent 4 days in a veterinary hospital. Manny paid \$1585 for the surgery, \$16.25 a day for board, and \$49.75 for medicine. What was Manny's total bill?

3. Flight 168 carries 54 passengers, each with 2 suitcases. Each suitcase has a mass of about 16 kg. The airplane was built to carry 2250 kg of luggage. Is the flight over or under the limit? Explain.

4. Edgar's corn field is 896 m long and 742 m wide. What is the area of Edgar's corn field?

Stretch Your Thinking

Write a 2-step problem that requires 2 different operations to solve. Estimate to check if the answer is reasonable.

Exploring Multiples



Quick Review

To find the **multiples** of a number, start at that number and count on by the number.

The multiples of 5 are:

5, 10, 15, 20, 25, 30, 35, 40, ...

The multiples of 3 are:

3, 6, 9, 12, 15, 18, 21, 24, 27, 30, 33, 36, 39, ...

15 and 30 appear in both lists.

They are **common multiples** of 5 and 3.

Each common multiple of 5 and 3 is divisible by 5 and by 3.

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40

Try These

1. List the first 6 multiples of each number.

a) 4 _____

b) 9 _____

c) 25 _____

d) 6 _____

e) 12 _____

f) 100 _____

2. Use the hundred chart.

Colour the multiples of 7.

Circle the multiples of 3.

What are the common multiples of 7 and 3 on the chart?

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	50
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

Practice

1. Write the first 10 multiples of each pair of numbers.
Circle the common multiples of each pair.

a) 6: _____

8: _____

b) 4: _____

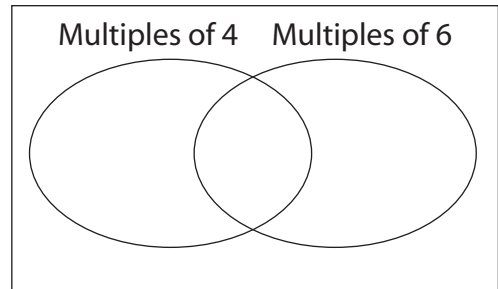
7: _____

2. Sort these numbers in the Venn diagram.

20, 33, 36, 88, 64, 48,

68, 78, 84, 32, 76, 90,

12, 54, 65, 42, 66, 102



3. Find all the common multiples of 8 and 12 that are less than 100.

4. Find the first 3 common multiples of each set of numbers.

a) 2, 3, and 9 _____ b) 2, 3, and 5 _____

c) 4, 5, and 10 _____ d) 6, 7, and 8 _____

5. Use a calculator. Find the first common multiple of each pair of numbers.

a) 16 and 18 _____ b) 12 and 16 _____

c) 12 and 15 _____ d) 11 and 12 _____

Stretch Your Thinking

Bethany wears jeans every 2 days. She wears running shoes every 3 days. If she wears jeans with running shoes on May 1, what are the next 3 dates on which she will wear both jeans and running shoes?
