

Practice

Use Base Ten Blocks when they help.

1. Divide.

a) $794 \div 2$

b) $263 \div 9$

c) $410 \div 4$

d) $314 \div 6$

2. Divide. Use Base Ten Blocks, then record your answer.

a) $145 \div 5$

b) $189 \div 2$

c) $272 \div 8$

d) $230 \div 6$

e) $344 \div 8$

f) $420 \div 7$

g) $245 \div 9$

h) $328 \div 4$

3. Janelle has a book with 246 pages.

She has to read it in 6 days.

Janelle plans to read the same number of pages each day.

How many pages does she need to read daily?

4. Divide. Which strategy did you use each time?

a) $4 \overline{)484}$

b) $3 \overline{)651}$

c) $6 \overline{)670}$

d) $5 \overline{)715}$

e) $375 \div 8$

f) $274 \div 6$

g) $434 \div 7$

h) $853 \div 4$

5. A baker made 615 loaves of bread in 5 days.

She made the same number of loaves each day.

How many loaves did the baker make each day?

6. Divide.

a) $250 \div 5$

b) $146 \div 5$

c) $165 \div 5$

d) $324 \div 5$

e) $480 \div 5$

f) $487 \div 5$

g) $495 \div 5$

h) $139 \div 5$

Before you divide by 5, how can you tell if there will be a remainder?

7. One hundred forty-eight students are going to

Festival du Voyageur in Saint-Boniface, Winnipeg.

They are travelling in equal groups on 4 buses.

How many students will be on each bus?

8. Write a story problem that can be solved

by finding $342 \div 3$.

Trade problems with a classmate.

Solve your classmate's problem.



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9. Without dividing, how can you tell if $415 \div 5$ has a 3-digit answer or a 2-digit answer? Show your work.
10. Alex is putting his 246 sports cards into an album. He will mount 8 cards on each page.
- How many pages will Alex need?
 - Explain why you need to think about the remainder.
11. Each student needs a notebook. There are 148 students. There are 8 notebooks in each packet.
- How many packets are needed?
 - What does the remainder tell you?
12. Two hundred sixty-five slices of tourtière were ordered for a Taste of Québec Day. There are 8 slices in one tourtière.
- How many tourtières does the school need to order?
 - How many more slices could be sold before the school needs to order another tourtière?
 - Suppose the school sold 10 slices less than were ordered. How would that change the number of tourtières needed? Explain your thinking.
13. When you divide a 3-digit number by a 1-digit number, will the answer ever be a 1-digit number? Explain how you know.
14. Kendra has twice as many building blocks as Janet. Janet has twice as many as Fariah. Fariah has 57 blocks. The girls use all the blocks to build 3 identical towers. How many blocks are in each tower? How do you know?



Reflect

When is the remainder in a division problem ignored?
When does the remainder indicate that the quotient should be rounded up?
Use words and numbers to explain an example of each problem.

► Use mental math.

Divide: $728 \div 5$

Break 728 into numbers you can divide easily by 5.

$$728 = 500 + 200 + 28$$

$$500 \div 5 = 50 \text{ tens} \div 5$$

$$= 10 \text{ tens}$$

$$= 100$$

$$200 \div 5 = 20 \text{ tens} \div 5$$

$$= 4 \text{ tens}$$

$$= 40$$

$$28 \div 5 = 5 \text{ R}3$$

$$\text{So, } 728 \div 5 = 100 + 40 + 5 \text{ R}3$$

$$= 145 \text{ R}3$$

One hundred forty-five sets of tires can be made.

There will be 3 tires left over.

To check, multiply 145 by 5, then add 3.

$$145 \times 5 = 725$$

$$725 + 3 = 728 \leftarrow \text{Since this is the dividend, the answer is correct.}$$

Practice

1. Find each quotient. Estimate first. Show your work.

a) $9 \overline{)540}$

b) $3 \overline{)720}$

c) $5 \overline{)255}$

d) $8 \overline{)168}$

e) $4 \overline{)268}$

f) $7 \overline{)112}$

g) $6 \overline{)704}$

h) $2 \overline{)173}$

i) $9 \overline{)398}$

j) $4 \overline{)600}$

k) $3 \overline{)299}$

l) $3 \overline{)212}$

2. Divide. Check by multiplying. Show your work.

a) $925 \div 6$

b) $537 \div 9$

c) $588 \div 7$

d) $831 \div 4$

e) $108 \div 4$

f) $311 \div 6$

g) $284 \div 5$

h) $606 \div 9$

i) $667 \div 7$

j) $424 \div 8$

k) $903 \div 8$

l) $418 \div 6$

3. Look at your answers for question 2.

Which quotients had 3 digits? Which had 2 digits?

How can you tell how many digits

the quotient will have before you divide?

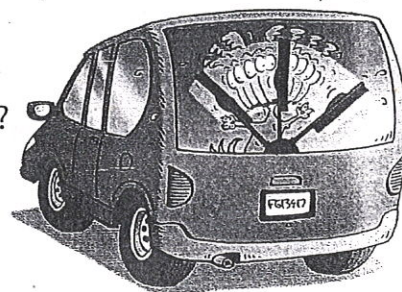
4. Most minivans have 3 wiper blades.

How many sets of 3 blades can be made from 342 blades?

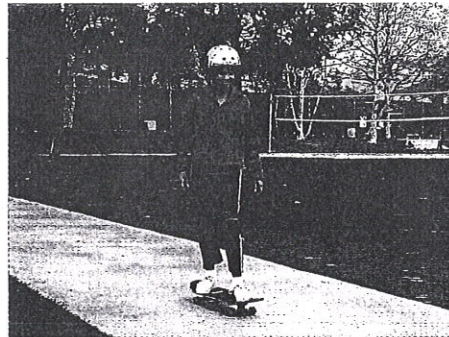
5. Gabi has 629 pennies.

She wants to give 90¢ to each of 7 friends.

Can she do it? Explain.



6. Zoomin' Inc. makes skateboards.
In 5 days, 980 skateboards were made.
The same number of skateboards was made each day.
How many skateboards were made each day?
How can you check?
7. Write a division problem that can be solved by dividing a 3-digit number by a 1-digit number.
Trade problems with a classmate.
Solve your classmate's problem.
8. Troy is planning a family reunion.
He estimates that 250 people will attend.
Troy plans one hot dog per person.
Hot dogs come in packages of 6 or 8.
Which type of package should Troy buy?
Justify your answer.
9. The Grades 5 and 6 classes get together for a 5-a-side soccer tournament. There are 133 students.
- a) How many students will not be on a team?
Justify your answer.
 - b) Soccer can also be played with 4, 6, or 7 people on a team.
Which size team would provide for the fewest students not on a team?
Justify your answer.
10. Use each of these digits once: 8, 6, 1
Arrange the digits to make a 3-digit number.
How many different 3-digit numbers can you make that have no remainder when divided by 7?
How do you know you have found all of them?



Reflect

Which strategy for dividing did you find most difficult to use?
Talk to a classmate about the strategy.
Write what you learned about the strategy.