Divide Multi-Digit Numbers Using an Algorithm

Divide big whole numbers and say what the quotient and remainder mean.

Name _____ **Date** _____

Tonight's spark

A rec center orders 1,344 granola bars. They pack 12 bars in each box. How many boxes will they fill?

Make a guess first: more than 100 boxes, or fewer?

Boxes	Bars
100	1,200
10	120
2	24
?	1,344

Our class model: taking away easy chunks

Try it

Work it out on paper. Write one answer on each line.

1. **What is 84 ÷ 4?**

   A. 21 **B.** 20 **C.** 22 **D.** 336

   My answer _____

2. **In 156 ÷ 12, which number is the divisor?**

   A. 156 **B.** 12 **C.** 13 **D.** 168

   My answer _____

3 **What is 432 ÷ 6?**

A. 62 **B.** 702 **C.** 72 **D.** 7.2

My answer _____

4 **What is 756 ÷ 18?**

A. 32 **B.** 48 **C.** 4.2 **D.** 42

My answer _____

5 **What is 2,450 ÷ 25?**

A. 90 **B.** 98 **C.** 980 **D.** 9.8

My answer _____

6 **What is 100 ÷ 7, written with a remainder?**

A. 14 **B.** 13 R 9 **C.** 14 R 2 **D.** 2 R 14

My answer _____

Talk about it

Which number is the dividend and which is the divisor? How can you check the quotient?

Home mission

Pretend you have 1,344 stickers to put in packs of 12. Can your student take out 12 × 100 first and say how many stickers are left?

If we get stuck, ask

- What is a big, easy chunk of the divisor we can take out first?
- How much is left now? Can we take out another chunk?
- Let's add up all our chunks. Then multiply back to check.

Do it on a screen

Scan or type the link. Same lesson, with hints.

eduwonderlab.com/lessons/2-6/homework.html

How did it feel? (optional)

Tricky Getting there Got it