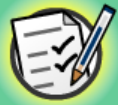# Multiplication and Division

Common core icons

This icon indicates a slide where the Standards for Mathematical Practice are being developed. Details of these are given in the Notes field.

MODELING

Slides containing examples of mathematical modeling are marked with this stamp.

This icon indicates an opportunity for discussion or group work.

The **Standards for Mathematical Practice** outlined in the Common Core State Standards for Mathematics describe varieties of expertise that mathematics educators at all levels should seek to develop in their students.

These are:

1) **Make sense of problems and persevere in solving them.**

2) **Reason abstractly and quantitatively.**

3) **Construct viable arguments and critique the reasoning of others.**

4) **Model with mathematics.**

5) **Use appropriate tools strategically.**

6) **Attend to precision.**

7) **Look for and make use of structure.**

8) **Look for and express regularity in repeated reasoning.**

This icon indicates that the slide contains activities created in Flash. These activities are not editable.

This icon indicates teacher's notes in the Notes field.

It takes Alex 20 minutes to walk between his home and school. If Alex makes this journey twice a day, how many minutes will he have walked during one school week?

- Do we need to use **multiplication** or **division** to solve this problem?

- Can you write a number sentence using the information in the question?

- Can you solve the number sentence?

Multiplying by multiples of ten

When you multiply a number by 10 you just **add a '0'** on the end.

| 1 | 2 | 3 | 4 | 5 |

Let's review some strategies for **multiplication** and **division**!

Press on each of the tabs to find out about five strategies for multiplication and division.

How would you answer this problem? It looks difficult!

$$84 \div 4 = \textcolor{orange}{21}$$

We can use the same strategies with bigger numbers that we used with smaller ones!

Let's break this apart.

$$80 \div 4 = 20 \qquad 4 \div 4 = 1$$

$$20 + 1 = \textcolor{orange}{21}$$

Now we have an answer!

Test your knowledge of **multiplication** and **division** in this team quiz!
Get into two teams: **A** and **B**. Each team will be represented by a basketball player.
If your team answers a question correctly, your basketball player will score a point.
The team with the highest score wins!
Press **start** to begin.

start

Use the grid to practice multiplying the numbers 1 to 10. Press the cells in the grid to reveal the products of the numbers along the top and side. Press the **reveal** buttons to view a whole row of numbers.

Press **start** to begin.

start

veal all

Test your knowledge of multiplying the numbers 1 to 10 in this darts game!

Get into two teams: **A** and **B**. Press **throw** to throw a dart and see a multiplication problem. If your team answers correctly before the answer appears on screen, you score a point. The team with the highest score wins!

Press **start** to begin.

start

Team

Team

3

hide

Multiplication and division word problems

Sophia wants to buy candy to share equally with her 5 friends. She can buy packs of 15, 30, or 40.

1a. Which pack should she buy so that there no pieces left over?

1b. How many pieces will she have left if she buys a pack of 40?

Powers of ten

Let's multiply this number by ten!

6

Match each number to its correct pair.

0.8×10^4	5,000,000
5×10^6	88,000
$2.5 \div 10^3$	8,000
$25 \div 10^5$	0.0025
88×10^3	0.00025