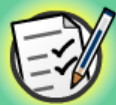


$$5 \times 7 = 35$$
$$20 + 2 = 22$$

Decimals



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.



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.

1.742



How many **ones**, **tenths** and **hundredths** are there in this number?

If we added another number after the decimal point, what name would it have?

We would call it a **thousandth**.

How many **thousandths** are there in this number?



6

Let's investigate decimals!

Zoom in on the number line to view **hundredths** and **thousandths**.

Press the spaces underneath the lines to view the numbers. Drag the number lines left and right to see more numbers.

Press **start** to begin.

start

Zoom





Drag the correct sign into place.

4.667

4.616



Rounding decimals

We round decimals in the same way as other numbers.

Round **7.3** to the nearest **whole number**.

7.3



Can you round these decimals to the nearest **whole number**, **tenth**, **hundredth** or **thousandth**?

Press **start** to begin.

start

6

6.14

7



hide





How do we add, subtract, multiply and divide with decimals?

You can probably already do it!

We can use the same strategies that we used for **whole numbers**.
Can you remember any?

See if you can find answers to these problems:

1. $1.6 + 0.3 = ?$

2. $1.2 - 0.4 = ?$

3. $0.2 \times 2 = ?$

4. $0.4 \div 2 = ?$




Can you use **addition** to find the answer to these decimal problems?

Find the decimal that adds to make **one** or **ten**.

Press **start** to begin.

start



complements to 1

complements to 10



Can you solve these **addition** and **subtraction** problems using number decomposition?

Try solving each problem yourself before pressing **play** to see the answer.

Press **start** to begin.

start





The students in Mrs. Holmes' class take different routes to school.

How far do the students travel on their way to school? Press on a section of the route to highlight it. Add together the highlighted sections to find the total distance travelled.

Press **start** to begin.

start

Total distance of highlighted route.





Nicole would like to buy a new set of pencils for school. Each pencil costs \$0.55. How much would 8 pencils cost?



$$0.55 \times 8 = ?$$

Let's use decomposition!

$$0.5 \times 8 = 4.0$$

$$0.05 \times 8 = 0.4$$

$$4.0 + 0.4 = 4.4$$

8 pencils cost **\$4.40**

I only have **\$3**. How many pencils can I buy?