

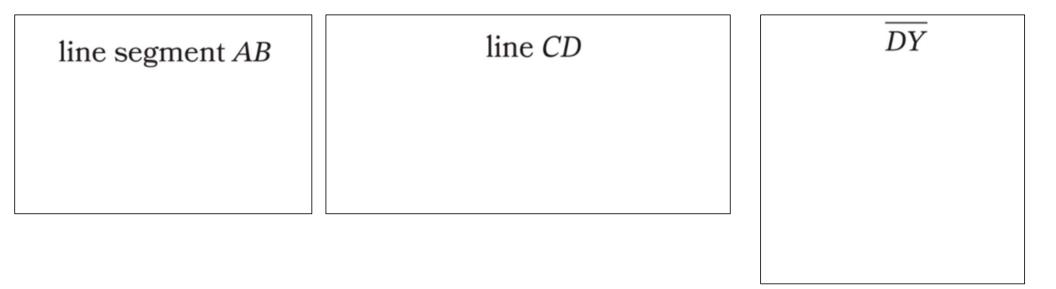
Module 4 - Lesson 30:

Create and solve real-world problems for given numerical expressions involving decimals.

CCSS Standard – 5.OA.A.1 / 5.OA.A.2

Whiteboard Exchange: Draw Geometric Figures







Whiteboard Exchange: Draw Geometric Figures



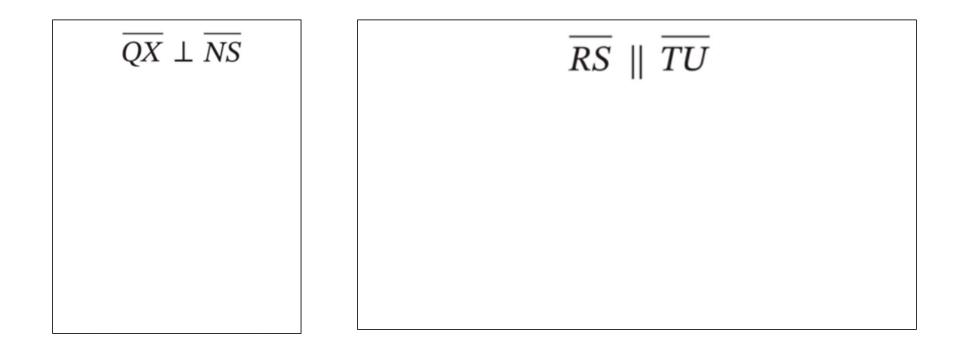
On my signal, read the name of the figure and then <u>draw an example of the figure</u> on your whiteboard. Ready?

\overleftrightarrow{BN}	parallel lines <i>EF</i> and <i>GH</i>	perpendicular lines <i>JK</i> and <i>LM</i>

Whiteboard Exchange: Draw Geometric Figures



On my signal, read the name of the figure and then <u>draw an example of the figure</u> on your whiteboard. Ready?



Whiteboard Exchange: Unknown Angle Measures



∠OKB is a **straight angle.** How many **degrees** are in a straight angle?

180°

How many degrees are in ∠LKB? **80°**

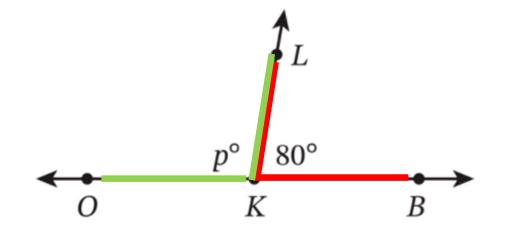
What type of angle is ∠LKB?

acute

Write a subtraction equation to find the measures of $\angle LKO$. Write the measure of $\angle LKO$.

What type of angle is ∠LKO?







Whiteboard Exchange: Unknown Angle Measures



Raise your hand when you know the answer to each question. Wait for my signal to say the answer.

∠JHF is a **straight angle.** How many **degrees** are in a straight angle?

180°

How many degrees are in \angle LHJ? **50°**

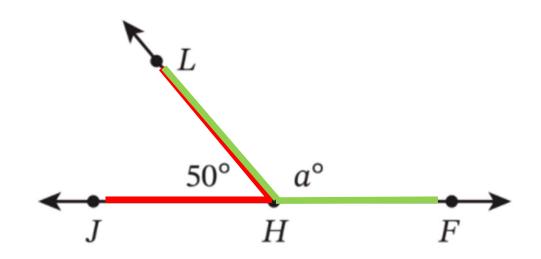
What type of angle is ∠LHJ?

acute

Write a subtraction equation to find the measures of \angle LHF. Write the measure of \angle LHF.

What type of angle is ∠LHF?

obtuse



Whiteboard Exchange: Unknown Angle Measures



Raise your hand when you know the answer to each question. Wait for my signal to say the answer.

∠CBA is a **straight angle.** How many **degrees** are in a straight angle?

180°

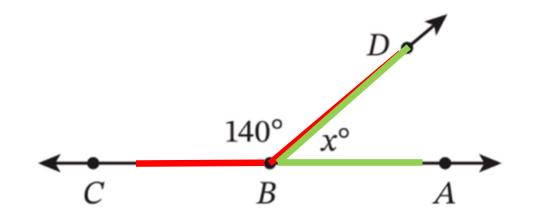
How many degrees are in ∠CBD?

What type of angle is ∠CBD?

•? **140**• **obtuse**

Write a subtraction equation to find the measures of $\angle DBA$. Write the measure of $\angle DBA$.

What type of angle is ∠DBA? **acute**



Whiteboard Exchange: Unknown Angle Measures

Raise your hand when you know the answer to each question. Wait for my signal to say the answer.

∠LMN is a **right angle.** How many **degrees** are in a right angle?

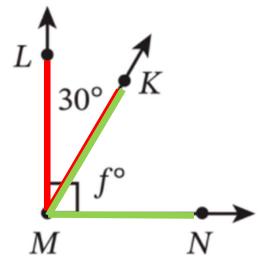
90°

How many degrees are in $\angle LMK$? **30**°

What type of angle is ∠LMK? **acute**

Write a subtraction equation to find the measures of $\angle KMN$. Write the measure of $\angle KMN$.

What type of angle is ∠KMN? **acute**





LAUNCH (5-min)

Match an expression to a word problem context.

Read each problem to yourself. You do not need to do any calculations.

Problem A	Problem B	
Blake ran 3.56 kilometers on Saturday. He ran 5.05 kilometers on Sunday. Sasha ran twice as far as Blake over the weekend. How far did Sasha run?	Mr. Evans buys 2 greeting cards and 1 roll of wrapping paper. Each card costs \$3.56. The roll of wrapping paper costs \$5.05. How much does Mr. Evans spend?	

Now, look at the expression. THINK-PAIR-SHARE: Which problem does the expression represent? Why?

What change can we make to the expression so that it represents problem A? Why?

Brainstorm Word Problem Situations

THINK-PAIR-SHARE:

Let's list some real-world scenarios that might involve decimals.

- Buying items at a store.
- Making a recipe
- Measuring things
- Running a race
- Riding a bike
- Filling containers
- ...so many options

Now, what operations could we use in our real-world scenarios?

- Adding up the miles I ride on my bike.
- Subtracting how far I ran Saturday compared to Sunday.
- Multiplying riding twice as far on my bike compared to my friend.
- Dividing the total miles, I rode on my bike by the number of days.



Using the expression below, construct a context that could apply to it. Be ready share out.

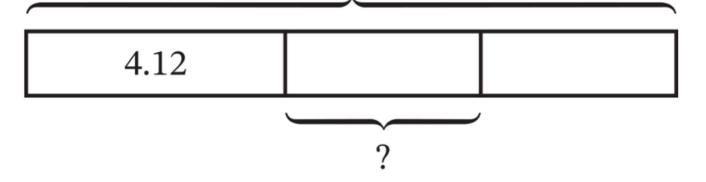
 $1.3 + (4 \times 0.75)$

A notebook costs \$1.30, and an eraser costs \$0.75. How much does it cost to buy 1 notebook and 4 erasers. Eddie buys 1 bag of red apples that weighs 1.3 kilograms. He buys 4 bags of green apples that each weigh 0.75 kilograms. How many kilograms of apples does Eddie buy?



Using the tape diagram below, construct a context that could apply to it. Be ready share out.

10.34



Noah has \$10.34. He buys a toy that costs \$4.12. He spends the rest of his money when he buy 2 sandwiches. Each sandwich costs the same amount. How much does each sandwich cost? Yuna has 10.34 meters of rope. She uses 4.12 meters to make a climbing rope. She cuts the rest of the rope into 2 equal parts. How many meters of rope are in each part?

LEARN book page 275.

Write a word problem that can be represented by the expression or tape diagram. Then solve the word problem.

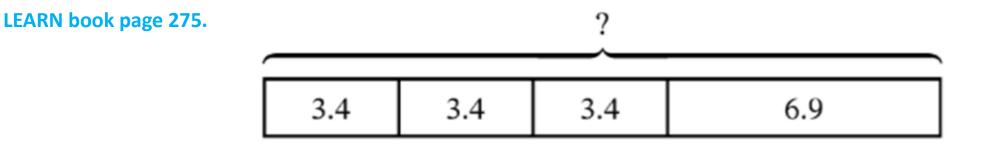
1. $(1.15 + 0.9) \div 5$

Riley combined 1.15 kilograms of almonds and 0.9 kilograms of cashews in a large bowl. She then divided the mix evenly into 5 containers. How many kilograms of the mix are in each container?

(1.15 + 0.9) ÷ 5 2.05 ÷ 5 0.41 kg

LEARN (35-min)

Write and Solve Word Problems to Represent Expressions and Tape Diagrams



Leo walks 3.4 kilometers each day for 3 days. He walks 6.9 kilometers on the fourth day. What is the total number of kilometers Leo walks in 4 days?

(3.4 x 3) + 6.9 10.2 + 6.9 17.1 km

LEARN book page 275.

(7 x 1.25) – (3 x 2.45)

At a bake sale, Tyler buys 7 cookies and Julie buys 3 muffins. Each cookie costs \$1.25 and each muffin costs \$2.45. How much more does Tyler spend at the bake sale than Julie?

(7 x \$1.25) – (3 x \$2.45) \$8.75 - \$7.35 **\$1.40**



Exit Ticket – PAGE 281

Small Group Time:

Problem Set Page 277 - 279

Homework:

Page 189 APPLY BOOK