

Lesson 20:

Solve multi-step word problems involving the four operations.

CCSS Standard – 5.OA.A.1 / 5.OA.A.2 / 5.NBT

LAUNCH (5-min)

LEARN BOOK – Page 169

Match mathematical expressions with real-world situation

Mathematical Expression

Real-World Situation

A. $(18 \times 4) + 5$

B. $18 \div (4 + 5)$

C. $(18 \times 4) - 5$

D. $18 + (4 \times 5)$

Leo buys 4 pens. Blake buys 5 pens. The total cost of the pens is \$18. If all the pens cost the same amount, what is the cost for 1 pen?

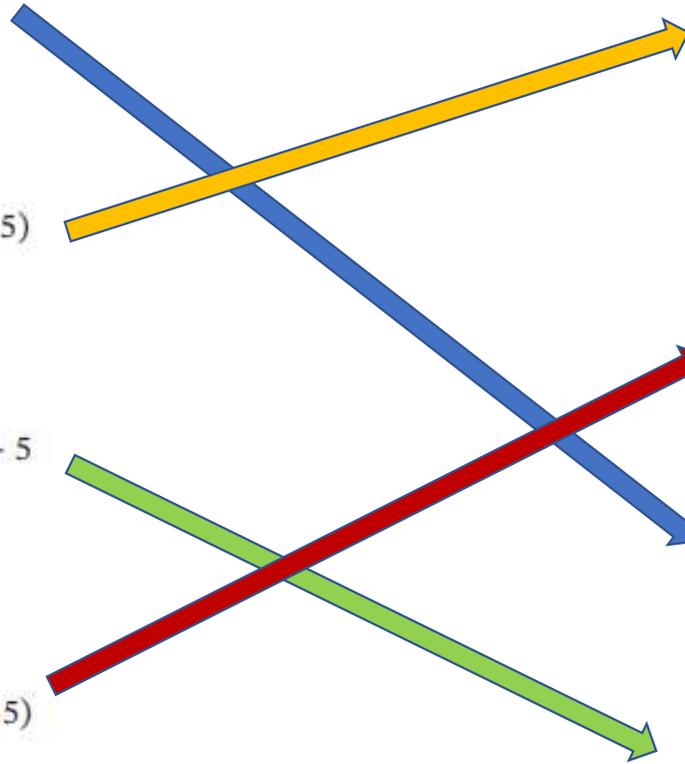
At a camp, 1 group has 18 kids, and 4 groups have 5 kids each. How many kids are at the camp?

Sana buys 4 cases of water. Each case has 18 bottles. If she also has 5 cans of juice, how many total drinks does she have?

Yuna mows 4 lawns and gets paid \$18 per lawn. If Yuna spends \$5, how much money does she have left over?

What is the difference between the meaning of expression A and the meaning of expression C?

What is the difference between the meaning of expression A and the meaning of expression D?



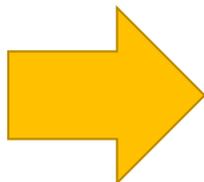
LEARN (40-min)

Students solve multi-step word problems with multiple operations and compare their methods with other students.

LEARN BOOK – Page 170

Jada is saving money for a computer that costs \$1,149. That is three times as much money as she has already saved. Her parents also gave her \$150 for the computer. Jada earns \$14 each hour at her job. How many hours does Jada need to work to earn the remaining money she needs to buy the computer?

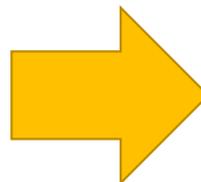
STEP 1: How much money does Jada already have?



$$\begin{array}{r} \$1,149 \div 3 = \\ \$383 \end{array}$$

STEP 2: How much money does Jada need?

$$\begin{array}{r} \$1,149 \\ - \quad \underline{\$383} \\ \$766 \\ - \quad \underline{\$150} \\ \$616 \end{array}$$



STEP 3: How many hours will Jada need to work?

$$\begin{array}{r} \$616 \div \$14 = \\ 44 \text{ hours} \end{array}$$

LEARN (40-min)

LEARN BOOK – Page 170

Jada is saving money for a computer that costs \$1,149. That is three times as much money as she has already saved. Her parents also gave her \$150 for the computer. Jada earns \$14 each hour at her job. How many hours does Jada need to work to earn the remaining money she needs to buy the computer?

computer cost $\overbrace{\hspace{2cm}}^{\$1,149}$

money saved $\underbrace{\$383 \ \$150}_{\text{Gift}}$

$\$616$

$\$14 \dots$

? hours

$$\begin{array}{r} 3 \\ 80 \\ 300 \\ \hline 3) 1149 \\ - 900 \\ \hline 249 \\ - 240 \\ \hline 9 \\ - 9 \\ \hline 0 \end{array}$$

$$\begin{array}{r} 383 \\ + 150 \\ \hline 533 \end{array}$$

$$\begin{array}{r} 1,149 \\ - 533 \\ \hline 616 \end{array}$$

$$\begin{array}{r} 40 \\ 14) 616 \\ - 560 \\ \hline 56 \\ - 56 \\ \hline 0 \end{array}$$

Jada needs to work 44 hours.

LET'S DISCUSS...

$\$1,149$

$\$383 \ \$383 \ \$383$

\$ \$766

saved

\$766 needed

$\$150 \ \616

gift

$\$616$

$\$14 \dots$

? hours

$$\begin{array}{r} 330 \quad 50 \quad 3 \\ 3 \overline{) 990 \ 150 \ 9} \\ \hline 159 \quad 9 \quad 0 \end{array}$$

$$\begin{array}{r} 0 \ 10 \ 14 \\ 1,149 \\ - 990 \\ \hline 159 \quad 9 \quad 0 \end{array}$$

$$\begin{array}{r} 766 \\ - 150 \\ \hline 616 \end{array}$$

$$\begin{array}{r} 30 \quad 10 \quad 4 \\ 14 \overline{) 420 \ 140 \ 56} \\ \hline 196 \quad 56 \quad 0 \end{array}$$

$$\begin{array}{r} 5 \ 11 \\ 616 \\ - 420 \\ \hline 196 \quad 56 \quad 0 \end{array}$$

Jada needs to work 44 hours.

LEARN (40-min)

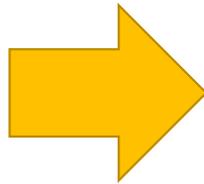
Students solve multi-step word problems with multiple operations and compare their methods with other students.

LEARN BOOK – Page 171

Noah delivers packages 4 days per week. He is expected to deliver 115 packages each day that he works. This week, he delivers 48 extra packages. How many packages does Noah deliver this week?

STEP 1: How many packages is he expected to deliver each week?

$$4 \times 115 =$$
$$460$$

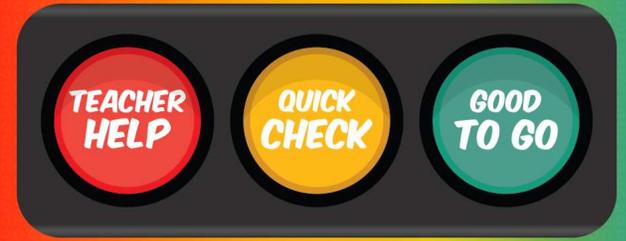


STEP 2: With the extra packages included, how many packages does Noah deliver this week?

$$460 + 48$$
$$508 \text{ packages}$$

LAND (10-min)

Exit Ticket



Name

Date



Use the Read–Draw–Write process to solve the problem.

Sasha builds a fence around part of her yard. The three sides of the fence measure 88 feet, 32 feet, and 48 feet. The fence comes in pieces that are 8 feet long. Each piece costs \$48. How much does the fence cost?

Exit Ticket – PAGE 175

Small Group Time:

Problem Set Page 171

Homework:

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