

SPRING 2020 | PACK #2



# At-home Learning



**GRADE 5**

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# 1

## Multiplying a whole number by a fraction

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Multiply. Write your answer as a proper fraction or mixed number in simplest form.

$$2 \times \frac{3}{8} = \underline{\frac{6}{8} = \frac{3}{4}}$$

$$8 \times \frac{1}{6} = \underline{\hspace{2cm}}$$

$$9 \times \frac{5}{8} = \underline{\hspace{2cm}}$$

$$\frac{11}{12} \times 5 = \underline{\hspace{2cm}}$$

$$\frac{2}{3} \times 6 = \underline{\hspace{2cm}}$$

$$\frac{3}{4} \times 2 = \underline{\hspace{2cm}}$$

$$4 \times \frac{7}{12} = \underline{\hspace{2cm}}$$

$$3 \times \frac{5}{6} = \underline{\hspace{2cm}}$$

$$\frac{3}{10} \times 6 = \underline{\hspace{2cm}}$$

$$\frac{4}{5} \times 10 = \underline{\hspace{2cm}}$$

$$7 \times \frac{5}{9} = \underline{\hspace{2cm}}$$

$$8 \times \frac{10}{11} = \underline{\hspace{2cm}}$$

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**69L**

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# 2 Multiplying fractions

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Multiply. Write your answer in simplest form. Then circle all of the answers that are greater than  $\frac{1}{2}$ .

$$\frac{3}{8} \times \frac{1}{2} = \underline{\hspace{2cm}}$$

$$\frac{5}{7} \times \frac{1}{3} = \underline{\hspace{2cm}}$$

$$\frac{3}{10} \times \frac{2}{3} = \underline{\hspace{2cm}}$$

$$\frac{1}{4} \times \frac{1}{5} = \underline{\hspace{2cm}}$$

$$\frac{1}{2} \times \frac{5}{12} = \underline{\hspace{2cm}}$$

$$\frac{4}{5} \times \frac{2}{3} = \underline{\hspace{2cm}}$$

$$\frac{3}{4} \times \frac{3}{4} = \underline{\hspace{2cm}}$$

$$\frac{7}{9} \times \frac{1}{2} = \underline{\hspace{2cm}}$$

$$\frac{5}{8} \times \frac{1}{4} = \underline{\hspace{2cm}}$$

$$\frac{5}{9} \times \frac{3}{5} = \underline{\hspace{2cm}}$$

$$\frac{7}{8} \times \frac{4}{5} = \underline{\hspace{2cm}}$$

$$\frac{5}{11} \times \frac{11}{12} = \underline{\hspace{2cm}}$$

# 3 Word problems

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Answer each question. Write your answer in simplest form.

A group of 8 friends were having a picnic, and  $\frac{3}{4}$  of them brought sandwiches. How many of the friends brought a sandwich?

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A bike trail is 12 miles, and  $\frac{5}{6}$  of it goes along the river. How many miles of the trail are along the river?

\_\_\_\_\_

Rebecca has 9 video games on her shelf, and  $\frac{1}{3}$  of them are racing games. How many racing games does Rebecca have?

\_\_\_\_\_

A group of 10 friends went to a ski resort, but  $\frac{2}{5}$  of them did not know how to ski. How many friends did not know how to ski?

\_\_\_\_\_



# 4 Word problems

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Answer each question. Write your answer in simplest form.

Mel has a box of donuts, and  $\frac{2}{3}$  of the donuts are mini.  
Out of all the mini donuts,  $\frac{3}{4}$  are chocolate. What fraction  
of the whole box are mini chocolate donuts?

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At the Fairview Symphony,  $\frac{1}{4}$  of the musicians play  
string instruments. Of the musicians who play string  
instruments,  $\frac{1}{4}$  play the violin. What fraction of the  
musicians play the violin?

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At her orchard, April estimates that  $\frac{5}{8}$  of the apples are  
red. She also estimates that  $\frac{4}{9}$  of the red apples are Gala  
apples. According to her estimates, what fraction of the  
apples in her orchard are Gala apples?

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At the Atlantic Aquarium,  $\frac{5}{6}$  of the animals are fish. On a  
tour, Jessie learns that  $\frac{3}{4}$  of all of the fish at the aquarium  
are saltwater fish. What fraction of the animals in the  
aquarium are saltwater fish?

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**38Y**

# 5 Multiplication as scaling

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Without doing the math, decide whether the product will be greater than or less than the first factor.

$8 \times \frac{1}{2} \text{ will be } \underline{\text{LESS}} \text{ than } 8.$

$\frac{1}{3} \times 3\frac{3}{4} \text{ will be } \underline{\hspace{2cm}} \text{ than } \frac{1}{3}.$

$2 \times 1\frac{5}{12} \text{ will be } \underline{\hspace{2cm}} \text{ than } 2.$

$\frac{7}{8} \times \frac{8}{9} \text{ will be } \underline{\hspace{2cm}} \text{ than } \frac{7}{8}.$

Without doing the math, compare each pair of products using  $>$  or  $<$ .

$12 \times \frac{1}{9} \bigcirc 12 \times 1\frac{1}{9}$

$\frac{8}{15} \times 2\frac{1}{5} \bigcirc \frac{8}{15} \times \frac{1}{5}$

$156 \times 4\frac{1}{7} \bigcirc 156 \times \frac{4}{7}$

$8 \times \frac{6}{7} \bigcirc 8 \times 1\frac{1}{8}$

You can use what you know about scaling to compare other products, too. Keep going! Compare each pair of products using  $>$  or  $<$ .

$22 \times \frac{1}{6} \bigcirc 32 \times \frac{1}{6}$

$94 \times 1\frac{1}{4} \bigcirc 90 \times \frac{2}{3}$

$16 \times 1\frac{1}{8} \bigcirc 15 \times \frac{7}{8}$

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**Q7M**

## 6

## Multiplying fractions and mixed numbers

Multiply. Write your answer as a proper fraction or mixed number in simplest form.

$$2\frac{1}{2} \times 3 = \underline{\hspace{2cm}}$$

$$2\frac{1}{9} \times \frac{1}{4} = \underline{\hspace{2cm}}$$

$$\frac{3}{5} \times 1\frac{2}{3} = \underline{\hspace{2cm}}$$

$$\frac{9}{10} \times 2\frac{1}{4} = \underline{\hspace{2cm}}$$

$$3\frac{1}{5} \times 4 = \underline{\hspace{2cm}}$$

$$4\frac{1}{2} \times 1\frac{3}{10} = \underline{\hspace{2cm}}$$

$$1\frac{1}{5} \times 1\frac{3}{4} = \underline{\hspace{2cm}}$$

$$2\frac{2}{5} \times 1\frac{2}{7} = \underline{\hspace{2cm}}$$

$$4\frac{1}{2} \times 2\frac{1}{3} = \underline{\hspace{2cm}}$$

$$1\frac{1}{9} \times 1\frac{7}{8} = \underline{\hspace{2cm}}$$

$$1\frac{2}{7} \times 4\frac{1}{5} = \underline{\hspace{2cm}}$$

# 7 Word problems

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Answer each question. Write your answer as a proper fraction or mixed number in simplest form.

On Wednesday, Mark ran  $3\frac{3}{5}$  miles at cross country practice. At Thursday's practice, he ran  $2\frac{1}{2}$  times as far as he did on Wednesday. How many miles did he run on Thursday?

\_\_\_\_\_

Justin bought 4 packages of cheese at Carly's Cheese Shop. Each package of cheese weighed  $1\frac{1}{4}$  pounds. How many pounds of cheese did he buy?

\_\_\_\_\_

Gavin has  $3\frac{1}{2}$  cups of vegetable oil in his cupboard. He needs  $\frac{1}{2}$  of the oil for a salad dressing. How many cups of oil does he need for the salad dressing?

\_\_\_\_\_

Mackenzie's apartment is  $5\frac{1}{2}$  blocks from her work. If she walks to work and then back home, how many blocks has she walked?

\_\_\_\_\_

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**5W6**

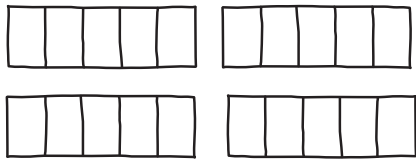


## 8

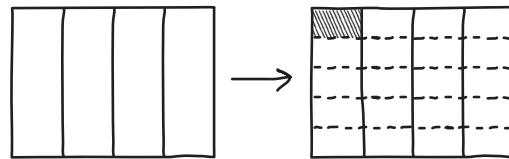
## Dividing fractions and whole numbers

Divide. Draw models to help.

$$4 \div \frac{1}{5} = \underline{20}$$



$$\frac{1}{4} \div 5 = \underline{\frac{1}{20}}$$



$$2 \div \frac{1}{6} = \underline{\hspace{2cm}}$$

$$\frac{1}{2} \div 6 = \underline{\hspace{2cm}}$$

$$3 \div \frac{1}{5} = \underline{\hspace{2cm}}$$

$$\frac{1}{3} \div 5 = \underline{\hspace{2cm}}$$

$$5 \div \frac{1}{2} = \underline{\hspace{2cm}}$$

$$\frac{1}{5} \div 2 = \underline{\hspace{2cm}}$$

# 9 Word problems

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Answer each question. Draw models to help.

Erica made a block of scented soap. The block weighs  $\frac{1}{2}$  of a pound. If she cuts the soap into 2 equal bars, how much will each bar weigh?

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Bailey bought 2 bags of pita chips. If she eats  $\frac{1}{7}$  of a bag each day, how long will the chips last?

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Mr. Murray bought  $\frac{1}{4}$  of a pound of turkey at the deli. He wants to use the turkey to make 3 sandwiches. If he splits the turkey equally, how much turkey will be on each sandwich?

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Zander wants to make a few bandanas for his puppy. He has 3 yards of paw-print fabric. Each bandana uses  $\frac{1}{2}$  of a yard of fabric. How many bandanas can he make?

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# 10 Dividing fractions

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Divide. Write your answer as a proper fraction or mixed number in simplest form.

$$\frac{5}{7} \div 3 = \underline{\hspace{2cm}}$$

$$\frac{1}{2} \div 2 = \underline{\hspace{2cm}}$$

$$2 \div \frac{1}{5} = \underline{\hspace{2cm}}$$

$$\frac{1}{6} \div 5 = \underline{\hspace{2cm}}$$

$$7 \div \frac{2}{3} = \underline{\hspace{2cm}}$$

$$\frac{2}{5} \div 4 = \underline{\hspace{2cm}}$$

$$\frac{4}{5} \div 3 = \underline{\hspace{2cm}}$$

$$\frac{1}{4} \div 8 = \underline{\hspace{2cm}}$$

$$9 \div \frac{7}{10} = \underline{\hspace{2cm}}$$

$$11 \div \frac{3}{5} = \underline{\hspace{2cm}}$$

# 11

## Answer key

### PAGE 1

$$2 \times \frac{3}{8} = \frac{3}{4}$$

$$8 \times \frac{1}{6} = 1\frac{1}{3}$$

$$9 \times \frac{5}{8} = 5\frac{5}{8}$$

$$\frac{11}{12} \times 5 = 4\frac{7}{12}$$

$$\frac{2}{3} \times 6 = 4$$

$$\frac{3}{4} \times 2 = 1\frac{1}{2}$$

$$4 \times \frac{7}{12} = 2\frac{1}{3}$$

$$3 \times \frac{5}{6} = 2\frac{1}{2}$$

$$\frac{3}{10} \times 6 = 1\frac{4}{5}$$

$$\frac{4}{5} \times 10 = 8$$

$$7 \times \frac{5}{9} = 3\frac{8}{9}$$

$$8 \times \frac{10}{11} = 7\frac{3}{11}$$

### PAGE 2

$$\frac{3}{8} \times \frac{1}{2} = \frac{3}{16}$$

$$\frac{5}{7} \times \frac{1}{3} = \frac{5}{21}$$

$$\frac{3}{10} \times \frac{2}{3} = \frac{1}{5}$$

$$\frac{1}{4} \times \frac{1}{5} = \frac{1}{20}$$

$$\frac{1}{2} \times \frac{5}{12} = \frac{5}{24}$$

$$\frac{4}{5} \times \frac{2}{3} = \left(\frac{8}{15}\right)$$

$$\frac{3}{4} \times \frac{3}{4} = \left(\frac{9}{16}\right)$$

$$\frac{7}{9} \times \frac{1}{2} = \frac{7}{18}$$

$$\frac{5}{8} \times \frac{1}{4} = \frac{5}{32}$$

$$\frac{5}{9} \times \frac{3}{5} = \frac{1}{3}$$

$$\frac{7}{8} \times \frac{4}{5} = \left(\frac{7}{10}\right)$$

$$\frac{5}{11} \times \frac{11}{12} = \frac{5}{12}$$

### PAGE 3

6 friends

10 miles

3 racing games

4 friends

### PAGE 4

$$\frac{1}{2}$$

$$\frac{1}{16}$$

$$\frac{5}{18}$$

$$\frac{5}{8}$$

### PAGE 5

$8 \times \frac{1}{2}$  will be less than 8.

$\frac{1}{3} \times 3\frac{3}{4}$  will be greater than  $\frac{1}{3}$ .

$2 \times 1\frac{5}{12}$  will be greater than 2.

$\frac{7}{8} \times \frac{8}{9}$  will be less than  $\frac{7}{8}$ .

$$12 \times \frac{1}{9} < 12 \times 1\frac{1}{9} \quad \frac{8}{15} \times 2\frac{1}{5} > \frac{8}{15} \times \frac{1}{5}$$

$$156 \times 4\frac{1}{7} > 156 \times \frac{4}{7} \quad 8 \times \frac{6}{7} < 8 \times 1\frac{1}{8}$$

$$22 \times \frac{1}{6} < 32 \times \frac{1}{6} \quad 94 \times 1\frac{1}{4} > 90 \times \frac{2}{3}$$

$$16 \times 1\frac{1}{8} > 15 \times \frac{7}{8}$$

### PAGE 6

$$2\frac{1}{2} \times 3 = 7\frac{1}{2}$$

$$2\frac{1}{9} \times \frac{1}{4} = \frac{19}{36}$$

$$\frac{3}{5} \times 1\frac{2}{3} = 1$$

$$\frac{9}{10} \times 2\frac{1}{4} = 2\frac{1}{40}$$

$$3\frac{1}{5} \times 4 = 12\frac{4}{5}$$

$$4\frac{1}{2} \times 1\frac{3}{10} = 5\frac{17}{20}$$

$$1\frac{1}{5} \times 1\frac{3}{4} = 2\frac{1}{10}$$

$$2\frac{2}{5} \times 1\frac{2}{7} = 3\frac{3}{35}$$

$$4\frac{1}{2} \times 2\frac{1}{3} = 10\frac{1}{2}$$

$$1\frac{1}{9} \times 1\frac{7}{8} = 2\frac{1}{12}$$

$$1\frac{2}{7} \times 4\frac{1}{5} = 5\frac{2}{5}$$

### PAGE 7

9 miles

5 pounds

$1\frac{3}{4}$  cups

11 blocks

### PAGE 8

$$4 \div \frac{1}{5} = 20$$

$$\frac{1}{4} \div 5 = \frac{1}{20}$$

$$2 \div \frac{1}{6} = 12$$

$$\frac{1}{2} \div 6 = \frac{1}{12}$$

$$3 \div \frac{1}{5} = 15$$

$$\frac{1}{3} \div 5 = \frac{1}{15}$$

$$5 \div \frac{1}{2} = 10$$

$$\frac{1}{5} \div 2 = \frac{1}{10}$$

### PAGE 9

$\frac{1}{4}$  of a pound

14 days

$\frac{1}{12}$  of a pound

6 bandanas

### PAGE 10

$$\frac{5}{7} \div 3 = \frac{5}{21}$$

$$\frac{1}{2} \div 2 = \frac{1}{4}$$

$$2 \div \frac{1}{5} = 10$$

$$\frac{1}{6} \div 5 = \frac{1}{30}$$

$$7 \div \frac{2}{3} = 10\frac{1}{2}$$

$$\frac{2}{5} \div 4 = \frac{1}{10}$$

$$\frac{4}{5} \div 3 = \frac{4}{15}$$

$$\frac{1}{4} \div 8 = \frac{1}{32}$$

$$9 \div \frac{7}{10} = 12\frac{6}{7}$$

$$11 \div \frac{3}{5} = 18\frac{1}{3}$$