

Enrichment Packet #18

Due: Monday

NAME: _____

Boxes of Fractions

Complete each fraction box. Start with the fraction in the circle and add or subtract the fraction in the inner box to get the fraction in each outer corner.

Reasoning

Write your answers in simplest form.

One subtraction in Exercise 1 has been completed for you.

1.

$\frac{2}{8} = \frac{1}{4}$																			
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$\frac{3}{6} = \frac{1}{2}$																			

Enrichment 11-1

Name _____

Date _____



MULTIPLYING FRACTIONS BY AN INTEGER 2

*Multiply these fractions, leaving your answer as a mixed number where appropriate. Your answer does **not** need to be in simplest form.*



Example $\frac{3}{7} \times 8 = \frac{3 \times 8}{7} = \frac{24}{7} = 3 \frac{3}{7}$

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

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

3) $9 \times \frac{2}{5} =$

4) $\frac{3}{4}$ of 6 =

5) $\frac{2}{9} \times 5 =$

6) $\frac{4}{5} \times 4 =$

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

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

9) $6 \times \frac{2}{7} =$

10) $\frac{5}{8}$ of 4 =

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

12) $3 \times \frac{7}{9} =$

13) $9 \times \frac{5}{11} =$

14) $7 \times \frac{4}{7} =$

15) $\frac{3}{8} \times 5 =$

16) $\frac{9}{10} \times 11 =$

17) $\frac{2}{11}$ of 20 =

18) $8 \times \frac{5}{12} =$

19) $9 \times \frac{7}{20} =$

20) $\frac{3}{7} \times 12 =$

21) $7 \times \frac{8}{9} =$

22) $10 \times \frac{6}{15} =$

23) $\frac{9}{11} \times 9 =$

24) $10 \times \frac{7}{12} =$



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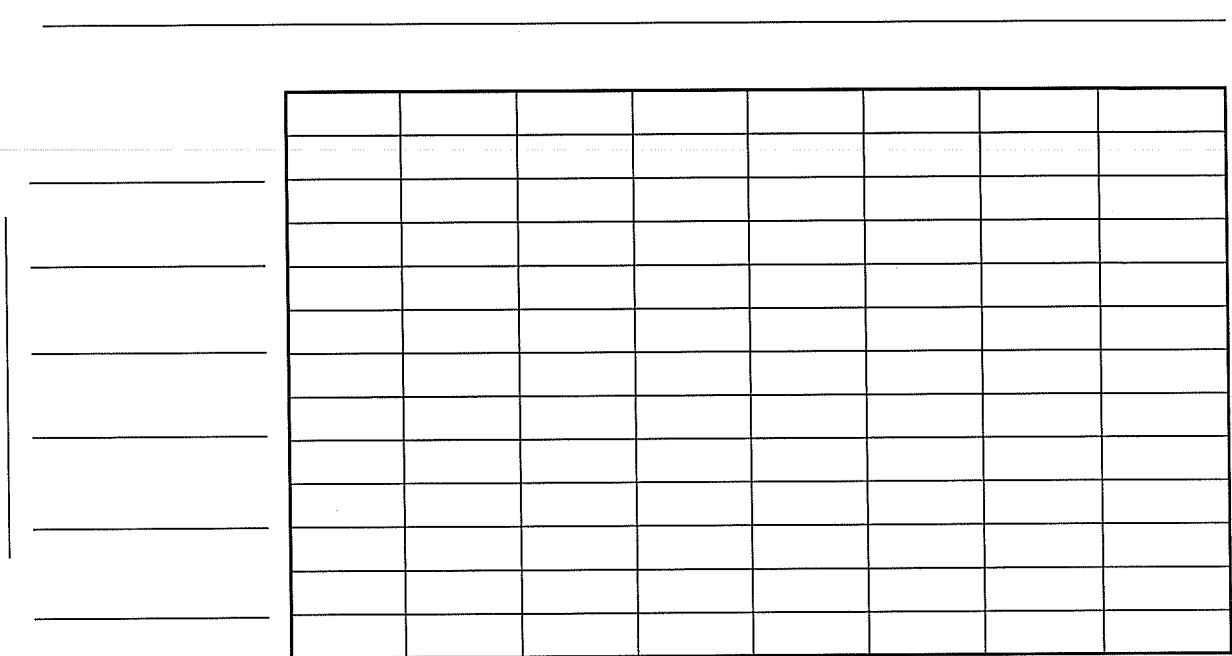
Animal Runners

Can you run as fast as a rabbit? The table shows the top speeds of some animals. The speeds are given in mph, or miles per hour.

Data

1. Use the data in the table to make a bar graph.

Animal	cheetah	chicken	elephant	human	lion	rabbit
Speed (in mph)	70	9	25	28	50	35



2. Label the vertical line at the far left *Animals*. Write the names of the different animals on the lines to the left of the grid.
3. Label the horizontal line below the grid *Speed (in Miles per Hour)*. Let each box on the grid stand for 10 mph. Starting at the left with 0, number the short horizontal lines.
4. Draw a bar to show the speed of each animal. Give the graph a title.
5. Can a human run as fast as any of these animals? Which one(s)?

Name _____

Date _____



DIVIDING MIXED FRACTIONS SHEET 2

Divide these fractions. Your answer can be left as an improper fraction and does not need to be in simplest form.



$$1) \quad 2\frac{1}{4} \div \frac{1}{2} = \frac{\quad}{4} \times \frac{\quad}{1} = \frac{\quad}{4} \quad 2) \quad 1\frac{1}{5} \div 3 = \frac{\quad}{5} \times \frac{\quad}{3} = \frac{\quad}{15}$$

$$3) \quad 3\frac{1}{2} \div \frac{2}{5} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} \quad 4) \quad 1\frac{2}{7} \div \frac{5}{6} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$5) \quad 2\frac{3}{4} \div 1\frac{2}{3} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} \quad 6) \quad 2\frac{2}{7} \div 1\frac{1}{3} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$7) \quad 4\frac{2}{5} \div 3 = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} \quad 8) \quad 2\frac{1}{6} \div 1\frac{1}{2} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$9) \quad \frac{5}{8} \div 2\frac{1}{3} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} \quad 10) \quad 5\frac{1}{4} \div 5 = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$11) \quad 3\frac{1}{3} \div 2\frac{1}{6} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} \quad 12) \quad 2\frac{3}{4} \div 1\frac{2}{5} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$13) \quad 7\frac{2}{5} \div 6 = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} \quad 14) \quad 1\frac{3}{8} \div 1\frac{2}{7} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$

$$15) \quad 3\frac{1}{4} \div 1\frac{4}{5} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad} \quad 16) \quad 2\frac{1}{7} \div 1\frac{3}{4} = \frac{\quad}{\quad} \times \frac{\quad}{\quad} = \frac{\quad}{\quad}$$



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Fraction Action

Reasoning

Work from left to right. In each exercise, you can write a subtraction sentence, using $-$ and $=$. The first one has been done for you. Circle each completed equation.

1. $\frac{8}{10}$ $\frac{1}{2} - \frac{2}{10} = \frac{3}{10}$ $\frac{1}{20}$ $\frac{9}{20}$

2. $\frac{3}{4}$ $\frac{1}{12}$ $\frac{8}{12}$ $\frac{1}{4}$ $\frac{2}{4}$ $\frac{1}{12}$

3. $\frac{1}{5}$ $\frac{8}{25}$ $\frac{14}{25}$ $\frac{1}{5}$ $\frac{9}{25}$ $\frac{11}{25}$

4. $\frac{3}{6}$ $\frac{5}{6}$ $\frac{1}{3}$ $\frac{3}{6}$ $\frac{2}{12}$ $\frac{5}{6}$

5. $\frac{8}{9}$ $\frac{2}{3}$ $\frac{2}{9}$ $\frac{9}{12}$ $\frac{3}{4}$ $\frac{1}{9}$

6. $\frac{3}{4}$ $\frac{4}{8}$ $\frac{7}{12}$ $\frac{1}{2}$ $\frac{1}{12}$ $\frac{2}{3}$

7. $\frac{3}{5}$ $\frac{7}{15}$ $\frac{1}{15}$ $\frac{11}{15}$ $\frac{1}{5}$ $\frac{8}{15}$

8. $\frac{9}{16}$ $\frac{3}{8}$ $\frac{3}{4}$ $\frac{2}{8}$ $\frac{4}{8}$ $\frac{8}{12}$

Enrichment 11-3

Complete the subtraction square.
Subtract across and down.

9. What number belongs in the circle?

$\frac{11}{12}$	$\frac{1}{4}$	
$\frac{1}{3}$	$\frac{1}{12}$	
$\frac{7}{12}$	$\frac{2}{12}$ or $\frac{1}{6}$	