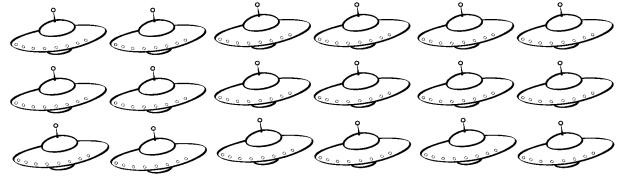
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Fill in the multiplication table.

	ı	2	3	4	5	6	7	8	q
		2							
2	2	4							
3									
4									
5									
6									
7									
8									
9									

Multiplication and division have an inverse relationship. Fill in the missing numbers. Use multiplication to check your answers.



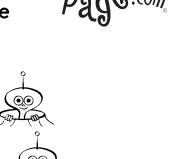
Answer

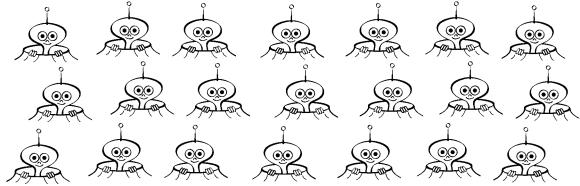
Check

1. _____
$$\div$$
 3 = 6 ____ | 8 ___ 6 x 3 = | 8

GRADE THREE · SPACE · MATH · 002

Solve the equations. Use the pictures to help you see the division.





Example: 21 aliens divided into 3 groups = $\frac{7}{2}$ aliens in each group. $21 \div 3 = \frac{7}{2}$

1. 18 UFOs divided into 3 groups = _____ UFOs in each group.

2. ____ rockets divided into 9 groups = 3 rockets in each group.

$$---$$
 ÷ 9 = 3

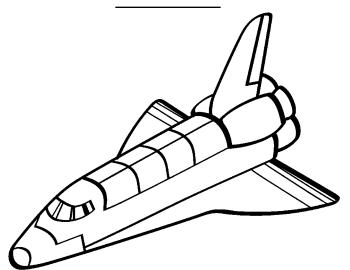
3. 16 planets divided into _____ groups = 4 planets in each group.

4. 8 comets divided into _____ groups = 2 comets in each group.

5. 24 suns divided into 4 groups = _____ suns in each group.

GRADE THREE · SPACE · MATH · 004

Solve the addition problems below.



SKILL: ADDITION/ FOUR DIGITS

GRADE THREE • SPACE • MATH • 005

Solve the subtraction problems below.



Round the numbers to the nearest ten.

- 57 _____
- 33 _____ 6.
- 2. 46
- 7.
- 72 _____ 3.
- 8. 198 _____
- 4. 121
- 242 _____ q.
- 5.
- 10. 501 _____

Round the numbers to the nearest hundred.

- 248
- 6. 409 _____
- 397 _____ 2.
- 7. 375 _____
- 3.
- 777 ______ 8.6,437 _____
- 4. 1,449 _____ 9. 7,895 _____
- 5. 2,735 ______ 10. 1,980 _____

Round the numbers to the nearest thousand.

- 6,782 _____ 6. 3,578 _____
- 5,150 _____ 7. 2,501 _____
- 3.
- 8,888 ______ 8.12,788 _____
- 4.
- 1,148 ______ 9.36,499 _____
- 5.
- 3,477 ______ 10. 7,507 _____

GRADE THREE • SPACE • MATH • 007

Insert the mathematical signs that lead you to the answer. $+ - \times \div$

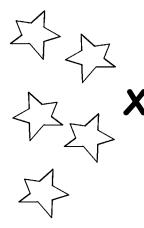
Example: 5 - 2 - 8 - 3 = 6

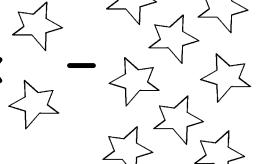
$$5 \times 2 - 8 \times 3 = 6$$

1. 5 ___ 6 ___ 10 = 3

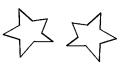
2. 9 ___ 3 ___ 8 = 24

4. 3 ___ 4 ___ 7 ___ 3 = 15 8. 4 ___ 2 __ 5 ___ 8 = 5









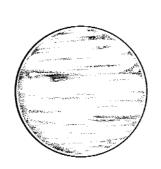


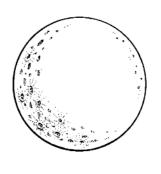


ADE THREE · SPACE · MATH · 008

Color $\frac{2}{3}$ of the planets red and $\frac{1}{3}$ of the planets blue.







Reduce these fractions to their lowest terms.

1.
$$\frac{3}{9} =$$

2.
$$\frac{3}{6} =$$

3.
$$\frac{40}{100}$$
 = _____

$$4. \frac{8}{24} =$$

$$5. \frac{5}{20} =$$

$$6.\frac{q}{36} =$$

$$7.\frac{4}{32} =$$

8.
$$\frac{5}{45} =$$

$$q. \frac{8}{16} =$$

10.
$$\frac{5}{10} =$$

Add these fractions. Reduce your answer to lowest terms.

$$1. \frac{1}{8} + \frac{2}{8} =$$

$$2. \ \frac{2}{4} + \frac{2}{4} = \underline{\hspace{1cm}}$$

3.
$$\frac{1}{5} + \frac{1}{5} =$$

$$4.\frac{2}{6} + \frac{3}{6} =$$

$$5. \frac{3}{12} + \frac{6}{12} =$$

$$6.\frac{3}{12} + \frac{3}{6} =$$

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Each fact family uses the same numbers in all the equations.

For example: Equations for the family of numbers 3, 5, & 8:

For each equation, write the other 3 equations for the fact family.

Write the equations for the following fact families.

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Each fact family uses the same numbers in all the equations.

For example: Equations for the family of numbers 5, 7, & 12:

For each equation, write the other 3 equations for the fact family.

Write the equations for the following fact families.

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Each fact family uses the same numbers in all the equations.

For example: Equations for the family of numbers 3, 7, & 21:

For each equation, write the other 3 equations for the fact family.

- 5. 5

 <u>×4</u> <u>×</u> ÷ ÷ ÷ ...
- 2. 2 × 5 10 ÷ ÷
- 6. 5

 <u>×3</u> <u>×</u> ÷ ÷
- 3. 4 × 9 36 ÷ ÷
- 7. 6 $\frac{\times 5}{30} \times \div \div$

Write the equations for the following fact families.

- 3. 2,9,18 × ÷ ÷

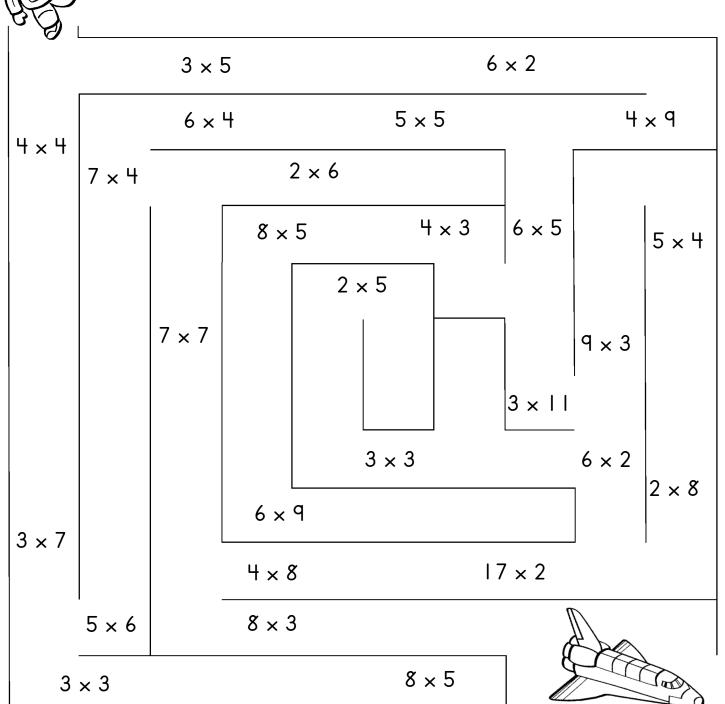
GRADE THREE · SPACE · MATH · 011

GRADE THREE · SPACE · MATH · 012

SKILL: MULTIPLICATION PRACTICE

Multiplication Maze

Help the astronaut return to her space shuttle. Choose the path with equations that total <35 but >15.



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Write the following numbers in expanded notation.

Example: 531 = 500 + 30 + 1

Write the smallest possible number using the following numbers. Show your number in expanded notation.

Example: 6,8,1,9 1,689 = 1000 + 600 + 80 + 9

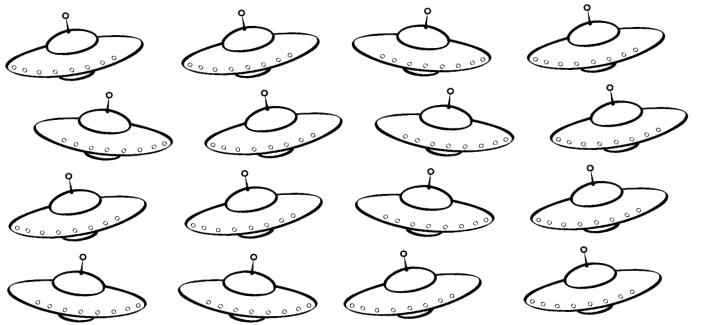
Name

Searning Page.com

There are 16 UFOs waiting to land on the planet.

Divide these UFOs to represent the following fractions.

Write how many UFOs equal each fraction.



$$\frac{4}{4}$$
 of the UFOs = ______

$$\frac{1}{16}$$
 of the UFOs = _____

$$\frac{1}{4}$$
 of the UFOs = _____

$$\frac{1}{2}$$
 of the UFOs = _____

$$\frac{3}{8}$$
 of the UFOs = _____

$$\frac{2}{4}$$
 of the UFOs = _____

$$\frac{5}{8}$$
 of the UFOs = _____

$$\frac{7}{8}$$
 of the UFOs = _____

$$\frac{6}{16}$$
 of the UFOs = _____

$$\frac{2}{8}$$
 of the UFOs = _____

$$\frac{3}{4}$$
 of the UFOs = _____

$$\frac{8}{16}$$
 of the UFOs = _____

3RADE THREE · SPACE · MATH · 015

In each group of fractions, circle those with common denominators.

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

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

$$3. \frac{1}{3}, \frac{5}{6}, \frac{5}{8}, \frac{3}{6}$$

$$4. \frac{1}{2}, \frac{5}{10}, \frac{5}{6}, \frac{9}{10}$$

$$5. \frac{6}{7}, \frac{5}{7}, \frac{3}{5}, \frac{3}{7}$$

6.
$$\frac{5}{8}$$
, $\frac{3}{6}$, $\frac{4}{5}$, $\frac{6}{8}$

7.
$$\frac{1}{2}$$
, $\frac{3}{6}$, $\frac{2}{6}$, $\frac{5}{6}$

8.
$$\frac{8}{9}$$
, $\frac{3}{6}$, $\frac{5}{9}$, $\frac{4}{5}$

q.
$$\frac{5}{7}$$
, $\frac{3}{5}$, $\frac{3}{7}$, $\frac{1}{3}$

10.
$$\frac{3}{4}$$
, $\frac{2}{6}$, $\frac{2}{4}$, $\frac{9}{10}$

Find the common denominator in these fractions. Write the new fractions.

Examples:

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

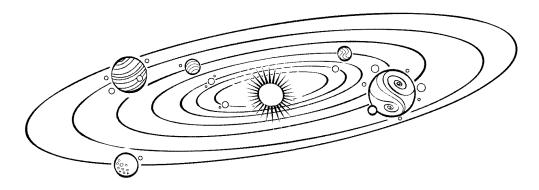
$$2.\frac{8}{16},\frac{18}{24}$$

3.
$$\frac{2}{6}$$
, $\frac{6}{12}$

$$\frac{1}{4}, \frac{2}{3} = \frac{\frac{3}{12}, \frac{8}{12}}{\frac{1}{12}}$$

5.
$$\frac{2}{5}$$
, $\frac{1}{2}$

6.
$$\frac{4}{9}$$
, $\frac{1}{4}$





Reduce these fractions to their lowest terms.

$$1. \frac{4}{36} = \frac{1}{9}$$

6.
$$\frac{3}{6} =$$

$$2. \frac{8}{16} =$$

7.
$$\frac{12}{36} =$$

3.
$$\frac{7}{28}$$
 = _____

8.
$$\frac{4}{28} =$$

$$4. \frac{6}{20} =$$

9.
$$\frac{8}{24} =$$

5.
$$\frac{20}{100}$$
 = _____

10.
$$\frac{10}{50} =$$

Add these fractions. Reduce your answer to lowest terms.

$$| \cdot \frac{1}{4} + \frac{1}{4} = \underline{\hspace{1cm}}$$

$$4. \frac{1}{3} + \frac{1}{3} =$$

$$2. \frac{1}{6} + \frac{2}{6} =$$

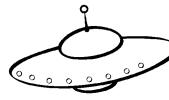
$$5. \frac{3}{12} + \frac{6}{12} =$$

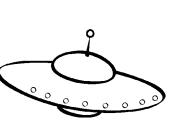
3.
$$\frac{2}{9} + \frac{4}{9} =$$

$$6.\frac{2}{5} + \frac{3}{5} =$$

 $\frac{2}{3}$ of these spaceships are white and $\frac{1}{3}$ is black.

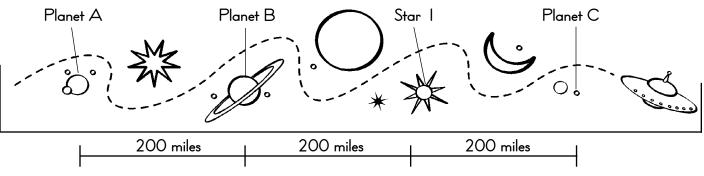








GRADE THREE • SPACE • MATH • 017



- I. The slow UFO can fly from the Planet A to Planet B in 4 hours. How many miles per hour did he travel?
- 2. The fast UFO can fly the same route in 2 hours.

 How many miles per hour did she travel?
- 3. The silly UFO left the Planet A at 5:00 P.M. She was playing around and didn't reach Star I until 1:00 A.M. How fast did she travel?
- 4. The speedy UFO travelled all the way to Planet C while the silly UFO was playing around. He even stopped for dinner and a nap by Star 1 for five hours. How fast did he travel?
- 5. If the fast UFO reached the far side of Planet C at I 1:00 A.M., what time did she leave Planet A?

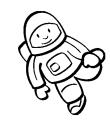
GRADE THREE · SPACE · MATH · 018

The area of a rectangle is its width times its height.

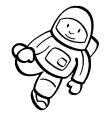
← 4 units →

l unit	l unit	l unit	l unit
l unit	l unit	l unit	l unit
l unit	l unit	l unit	l unit

—— 3 units ——



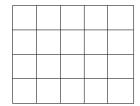




 $4 \text{ units} \times 3 \text{ units} = 12 \text{ units}$

The astronauts are making a building to store all the spaceships they have found. Look at their plans and write down how many units each spaceship will need.

- Rocketship _____ × ____ = ____ units
- Small UFO _____ × ___ = ___ units
- Large UFO _____ × ____ = ____ units



Space shuttle \longrightarrow x \longrightarrow units

Read the number words. Write the numbers in the blank.

one hundred fifty-nine ______

thirty-six _____

two thousand, one hundred seventy-four _____

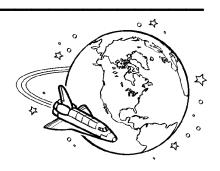
seven thousand, thirty _____

five hundred twelve _____

twenty-nine _____

Read the sentence. Write the underlined number word in the blank as you would say it.

Earth's diameter is 7,926 miles.



Look at the number. Write the number words in the blank as you would say it.

747 _____

4,376 _____

6,045 _____

398 _____



Write the money value for the following fractions.

$$1.\frac{1}{10}$$
 dollar = $10 \not\subset$

5.
$$\frac{3}{4}$$
 dollar = _____

$$2.\frac{5}{100}$$
 dollar = _____

6.
$$\frac{1}{20}$$
 dollar = _____

$$3.\frac{1}{100}$$
 dollar = _____

7.
$$\frac{q}{10}$$
 dollar = _____

4.
$$\frac{1}{2}$$
 dollar = _____

8.
$$\frac{q}{100}$$
 dollar = _____

Write the fraction of a dollar for each amount of money. Reduce to lowest terms.

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