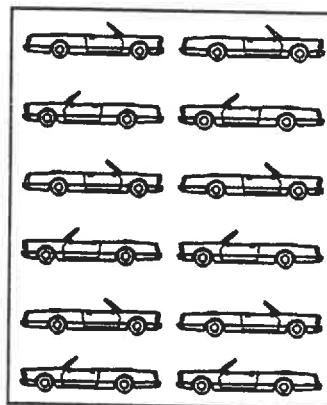
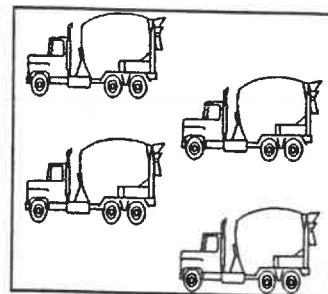
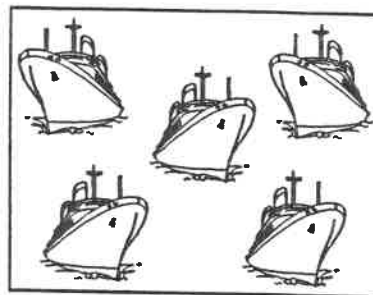
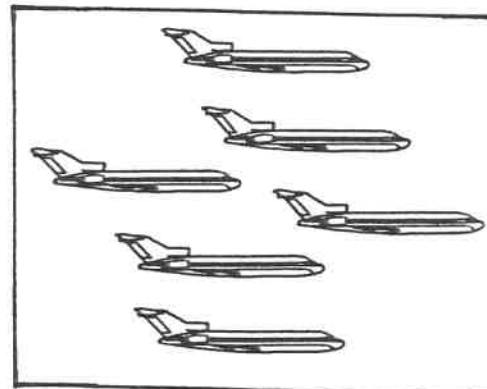


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Which is more correct to say?**"8 + 4 is 11 or 8 + 4 are 11."**

DIRECTIONS: Express each of the comparisons given below as ratios. Be careful to write your ratios in the correct order. Ratios can be written in several ways. For example, the number of trucks to sports cars can be written: 4 to 12, 4:12, or $\frac{4}{12}$. After you have written each ratio, find your answer in the decoder and write the letter of the problem above it. (Only one way of writing each ratio is given; it's up to you to discover which one!)

**SPORTS CARS****TRUCKS****BOATS****JETS**

- trucks to sports cars = _____ N
- trucks to boats = _____ T
- sports cars to boats = _____ H
- jets to trucks = _____ 4
- boats to trucks = _____ 8
- air transportation to water transportation = _____ U
- trucks to all other vehicles = _____ S
- water transportation to land transportation = _____ R
- jets to sports cars = _____ P
- sports cars to all other vehicles = _____ I
- all vehicles with wheels to those with no wheels = _____ E
- boats to the fastest transportations = _____ L
- all trucks to jets = _____ 12

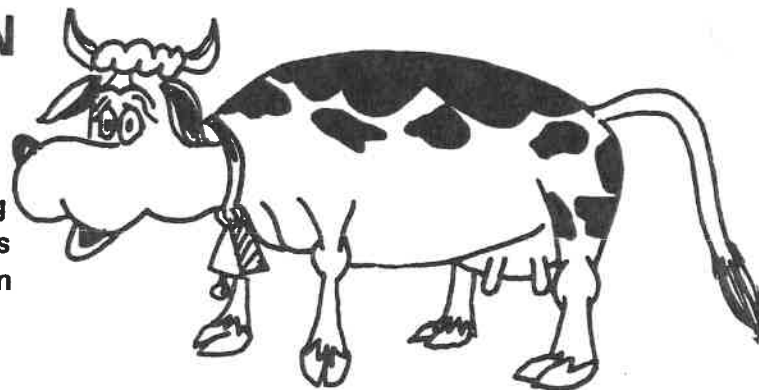
$\frac{4}{12}$ or $\frac{1}{3}$ 22 to 5 12:15 or 4:5 4 out of 5 12:5 22 to 5 $\frac{5}{16}$,

$\frac{5}{4}$ 6 to 12 or 1 to 2 5 out of 6 6 to 5 4:23 6 to 4 or 3 to 2

12:15 4:23 4:6 or 2:3
or 4:5

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WHY DOESN'T SWEDEN EXPORT CATTLE?



DIRECTIONS: Solve each problem by writing the unit rate. Each time your answer appears in the decoder, write the letter of the problem above it. All rates are expressed in lowest terms.

1. Ken purchased 100 pencils for \$4.00. _____ = N
2. The Atlanta Braves paid \$200.00 to have 3,000 posters printed. _____ = H
3. Catherine sold 288 magazine subscriptions in 18 days. _____ = E
4. The Grogans drove a total of 1,512 miles in 6 days. _____ = L
5. A typist types 1,950 words in 30 minutes. _____ = O
6. The Kodak shop processed 228 rolls of film in 4 days. _____ = R
7. Furniture Crafters charges \$268.15 to assemble 31 chairs. _____ = W
8. Cedric bought 12 pens for \$1.44. _____ = P
9. Bonnie's parents paid \$500 for 25 lessons in horseback riding. _____ = A
10. Apples were on sale at 4 pounds for \$1.20. _____ = S
11. Six Flags' season tickets were on sale at 6 for \$264.00 _____ = K
12. The Godfreys paid \$2,184 to rent a chalet for 6 months. _____ = C
13. Ryan sold 216 chocolate bars in 6 days for his soccer team. _____ = M
14. Jean read 60 pages in 15 minutes. _____ = T

<u>\$30/1</u>	<u>\$15/1</u>	<u>16/1</u>	<u>\$8.65/1</u>	<u>\$20/1</u>	<u>\$.04/1</u>	<u>4/1</u>	<u>\$.30/1</u>	
<u>4/1</u>	<u>65/1</u>	<u>\$44/1</u>	<u>16/1</u>	<u>16/1</u>	<u>\$.12/1</u>	<u>\$.15/1</u>	<u>16/1</u>	<u>57/1</u>
<u>\$.30/1</u>	<u>4/1</u>	<u>65/1</u>	<u>\$364/1</u>	<u>\$44/1</u>	<u>\$15/1</u>	<u>65/1</u>	<u>252/1</u>	<u>36/1</u>

Crack The Code

Solve a proportion below and find your answer in the code on the bottom of the page. Each time the answer appears in the code, write the letter in that proportion above the answer. Keep working and you will decode the poem.

Maths - show work on separate paper

- ① $\frac{10}{6} = \frac{15}{F}$ ⑥ $\frac{15}{20} = \frac{18}{K}$ ⑪ $\frac{2\frac{1}{2}}{5} = \frac{P}{4}$ ⑫ $\frac{12}{1} = \frac{14}{3\frac{1}{2}}$ ⑮ $\frac{4}{1} = \frac{11}{B}$
 ② $\frac{6}{4} = \frac{H}{10}$ ⑦ $\frac{N}{49} = \frac{10}{35}$ ⑬ $\frac{5}{10} = \frac{V}{3}$ ⑯ $\frac{3}{11} = \frac{T}{3}$
 ③ $\frac{4}{A} = \frac{9}{18}$ ⑧ $\frac{2}{1} = \frac{U}{25}$ ⑰ $\frac{3}{2} = \frac{O}{2}$ ⑲ $\frac{7}{R} = \frac{16}{2}$
 ④ $\frac{C}{15} = \frac{21}{9}$ ⑨ $\frac{16}{40} = \frac{24}{Y}$ ⑳ $\frac{3}{11} = \frac{T}{3}$
 ⑤ $\frac{24}{D} = \frac{16}{22}$ ⑩ $\frac{L}{15} = \frac{14}{10}$ ㉑ $\frac{3}{11} = \frac{T}{3}$

$$.875 \cdot 50 \cdot .81 \cdot 15 \quad .875 \cdot 2.3 \cdot 33 \cdot 3.3 \quad 2.3 \cdot 14 \quad 1.2 \cdot 60 \quad 1.2 \cdot 2.3 \cdot .81 \cdot 2.3 \cdot .875 \quad 2.75 \cdot 3 \cdot 24 \cdot 3.3$$

$$2.3 \cdot 14 \quad .81 \cdot 15 \cdot 3.3 \quad 3.6 \cdot 3.3 \cdot 8 \cdot .81 \quad 3 \cdot 14 \quad 2.75 \cdot 8 \cdot 35 \cdot 24 \quad 2.3 \cdot 9 \quad 1.2 \cdot 3.3$$

$$3 \quad .81 \cdot 2.3 \cdot 2.3 \cdot 24 \quad 8 \quad 2.75 \cdot 50 \cdot 1.2 \cdot 2 \quad 8 \cdot .81 \quad 9 \cdot 3 \cdot 9 \cdot .81 \cdot 60 \quad 9 \cdot 3 \cdot 1.5 \cdot 3.3$$

$$8 \cdot 14 \cdot 33 \quad .875 \cdot 2.3 \cdot 33 \cdot 3.3 \quad 2.3 \cdot 14 \quad .875 \cdot 50 \cdot .81 \cdot 15 \cdot 21 \cdot 3.3 \cdot 3.6 \cdot 3.6 \cdot 21 \cdot 60$$

* show proportion
& work to solve
on separate
sheet

What Should You Say When You Meet An Angel?

Work each problem and find your answers at the bottom of the page. Shade in the letter above each correct answer. When you finish, you will know what to say!

1	If 2 cubic feet of sand weigh 90 pounds, how much do 5 cubic feet of sand weigh? ANSWER: _____ pounds
2	If there are 560 calories in 8 ounces of meat, how many calories are in 3 ounces of meat? _____ calories
3	If pencils sell at 6 for 59¢, how many pencils can be bought for \$2.95? _____ pencils
4	A car travels 350 miles on 20 gallons of gasoline. How many gallons will be used to travel 875 miles under the same conditions? _____ gallons
5	The ratio of oil to vinegar in a certain salad dressing is 8 : 5. How much oil must be blended with 7 liters of vinegar for that recipe? _____ liters
6	The ratio of the weight of an object on Jupiter to its weight on Earth is 8 to 3. How much would a 100 pound person weigh on Jupiter? _____ pounds
7	If 1 gallon of paint covers 450 square feet, how many gallons are needed to paint a room with 675 square feet of wall surface? _____ gallons
8	If it takes 4 ounces of insecticide to make $2\frac{1}{2}$ gallons of garden spray, how much spray can be made with 6 ounces of insecticide? _____ gallons
9	A flagpole casts a shadow 32 feet long. If a man 6 feet tall casts a shadow 8 feet long at the same time and location, how tall is the flagpole? _____ feet
10	$4\frac{1}{3}$ cans of water must be added to a can of lemonade concentrate to make 64 ounces of lemonade. How many cans of water are needed to make 96 ounces of lemonade? _____ cans
11	Bronze is an alloy of copper and tin. If a certain type of bronze requires 0.3 kilogram of tin per 1.0 kilogram of copper, how much tin must be combined with 50 kilograms of copper? _____ kilograms
12	At a certain college, the ratio of men to women is 5 to 4. If there are 2800 men, how many women are there? _____ women
13	A cookie recipe which calls for $3\frac{1}{2}$ cups of flour makes 5 dozen cookies. How much flour is needed to make 3 dozen cookies? _____ cups
14	3.6 grams of salt will dissolve in 10 grams of water. How many grams of salt will dissolve in 1000 grams of water? _____ grams

W	E	F	I	G	H	T	W	I	T	H	B	A	L	L	O	T	S
360	210	24	15	2240	300	$11\frac{1}{5}$	225	$1\frac{1}{2}$	$266\frac{2}{3}$	$6\frac{1}{2}$	30	2320	$2\frac{2}{5}$	$3\frac{3}{4}$	32	$2\frac{1}{10}$	50