

Name _____

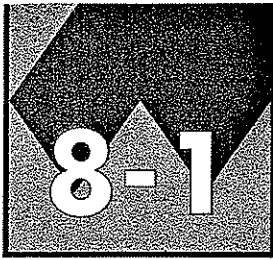
ALL IN A DAY'S WORK

Ratios can be found everywhere. Read the following journal of Ray's day.

Ray got out of bed at 6:00 a.m. after 7 hours of sleep. He showered for 10 minutes and was dressed 20 minutes later. Ray spent 15 minutes fixing and eating breakfast including 6 oz. of orange juice and a cup of coffee. He left his house at 7:00 for his 45-minute commute to work. He clocked in at 8:00 a.m. During the morning he answered 20 e-mail messages, 6 phone messages, and 8 voicemail messages. At 12:00 noon he took an hour lunch break to eat at Sally's Salad Bar. He was charged \$3.20 for a "pound serving" and \$0.80 for a 16-oz. drink. At 1:00, he was back at work. From 2:00 to 3:30 he was in a budget-planning meeting, followed by a goal-planning meeting from 4:00 to 4:45. He clocked out of his office at 5:00 p.m. and due to heavy traffic took 55 minutes to return home. He watched the 6:00 news until he ate a quick 30-minute supper at 6:30. Ray attended his daughter's recital from 7:30 p.m. to 9:00 p.m. Ray spent the rest of the evening with his family, and went to bed at his usual 11 p.m.

State the ratio in lowest terms for each of the following.

1. dressing time : shower time _____
2. amount of orange juice : amount of coffee _____
3. e-mail messages : voicemail messages _____
4. phone messages : voicemail messages _____
5. goal-planning time : budget-planning time _____
6. commute home : commute to work _____
7. breakfast time : supper time _____
8. salad cost : ounces of salad _____
9. cost of drink : ounces of drink _____
10. watching news : recital time _____
11. time at work (minus lunch) : time asleep _____
12. recital time : "family" time _____



Name _____ Date _____

Practice

Using Proportions

Write a proportion to solve each problem. Then solve.

1. If 18 plums weigh 54 ounces, then 27 plums weigh x ounces.
2. If 40 nails hold 5 rafters, then 96 nails hold r rafters.
3. If 32 addresses are on 2 pages of the address book, then a addresses are on 9 pages.
4. If 2 quarts fill 8 cups, then 5 quarts fill c cups.
5. If 360 inches of tape are on 3 spools, then t inches of tape are on 10 spools.
6. If 81 rivets are on 3 panels, then r rivets are on 13 panels.
7. If 60 sliced mushrooms are on 4 pizzas, then m sliced mushrooms are on 15 pizzas.
8. If 8 carpets form a 5-inch-high pile, then c carpets form a 30-inch-high pile.
8. If Crystal assembles 3 clipboards in 2 minutes, then she can assemble c clipboards in 15 minutes.
10. If a heart beats 98 times per minute, then it beats y times per hour.
11. If 1.5 ounces of oil are added to 1 gallon of gasoline, then 9 ounces of oil are added to g gallons of gasoline.
12. Dary can type 3 pages in 18 minutes. How many pages can Dary type in 33 minutes?

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 4 liters of motor oil cost \$3.88, what is the price for 1 liter? _____ cents
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	97	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