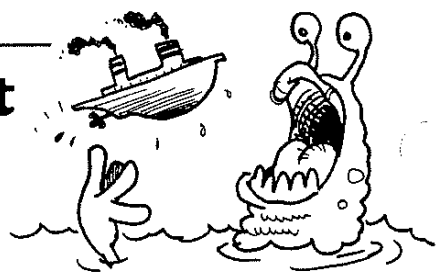


TEAM NAME: _____ PARTNER A: _____

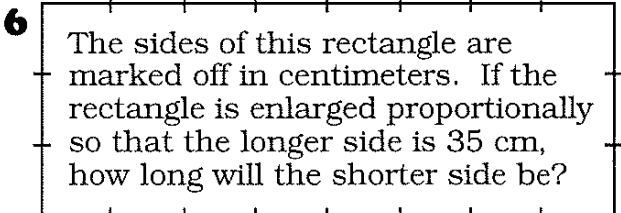
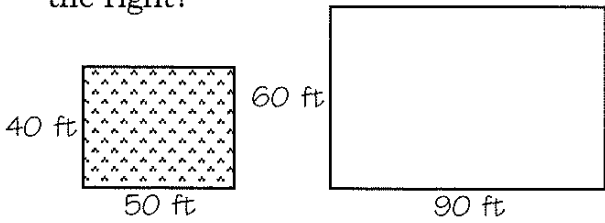
Why Did the Sea Monster Eat 27 Ships Carrying Potatoes?



Cross out the letters above each correct answer. When you finish, write the remaining letters in the spaces at the bottom of the page.

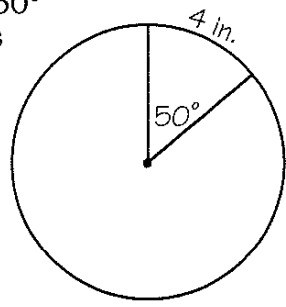


- 1 A photograph is 4.5 in. wide and 6 in. long. A yearbook editor has the photo reduced to fit a space 1.7 in. wide. How long is the reduced photograph?
- 2 A model rocket is built to a scale of 3 cm = 5 m. If the model is 7.4 cm tall, how tall is the actual rocket.
- 3 A map of Yosemite National Park is drawn to a scale of 1 in. = 1.44 mi. On the map, Tioga Pass is 15.8 in. from Yosemite Falls. What is the actual distance?
- 4 Sterling silver is an alloy made by combining silver with copper in a ratio of 23 to 2. How much copper should be combined with 70 kg of silver to make sterling silver?
- 5 It took 16 lb of grass seed to cover the field on the left. How many pounds will be needed to cover the field on the right?



- 6 The sides of this rectangle are marked off in centimeters. If the rectangle is enlarged proportionally so that the longer side is 35 cm, how long will the shorter side be?
- 7 A flagpole casts a shadow 22 ft long. If a man 6 ft tall casts a shadow 4.3 ft long at the same time, how tall is the flagpole?
- 8 A recipe uses 3 cups of grated cheese to make 10 servings. How much cheese is needed to make 6 servings?
- 9 The ratio of your weight on Earth to your weight on Mars is 5 to 2. If you weigh 120 lb on Earth, how much would you weigh on Mars?

10 For this circle, a 50° central angle cuts off an arc of 4 in. What is the circumference of the circle? (There are 360° in a circle.)



IT	NO	NE	XT	BO	AT	DY	S	CA
13.1 cm	46.5 lb	28.8 in.	2.3 in.	31.4 ft	1.8 c	5.8 kg	12.3 m	27.5 in.
NE	ED	F	AT	RY	JU	MP	ST	OP
2.2 c	22.8 mi	30.7 ft	11.6 m	48 lb	12.8 cm	43.2 lb	23.5 mi	6.1 kg

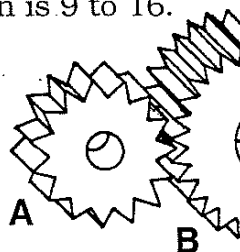


What Did the Detectives Say to the Crook?

Solve each problem and find your solution in the answer column. Note the two letters next to it. Write these letters in the two boxes above the exercise number at the bottom of the page.



- To make his special salad dressing, Wolfgang combines 7 fl oz of oil with 4 fl oz of vinegar. One day he needed a larger amount, so he used 8 fl oz of oil. How much vinegar did he need?
- The ratio of height to width for a TV screen is 9 to 16. How high is a screen that is 30 in. wide?
- GEAR RATIO.** The ratio of the number of teeth on Gear A to the number of teeth on Gear B is 5 to 12. How many teeth are on Gear B?
(Hint: Count the teeth on Gear A.)
- Jessica checked her gas mileage and found that she had used 17.4 gal of gas to travel 392 mi. At this rate, how many gallons will she use to travel from Los Angeles to Miami, a distance of 2,735 mi?
- If there are 95 g of fat in 16 oz of ground beef, how much fat is in 3 oz of ground beef?
- A locomotive is 56 ft long and 11 ft wide. A special effects designer makes a model that is 18 in. long. How wide should it be?
- The Screaming Equals' team color is made by mixing red paint with blue paint in a ratio of 12 to 7. How much blue paint should be mixed with 4 gal of red?
- A marathon runner ran the first 3 mi in 17.2 min. If she continues running at this pace, how long will it take her to run the entire marathon of 26.2 mi?
- SOLAR SYSTEM MODEL.** The sun has a diameter of 870,000 mi. The Earth has a diameter of 8,000 mi. If a 24-cm-diameter basketball is used as a model sun, what should be the diameter of the model Earth?



answers

- | | |
|----|-----------|
| ST | 153.4 min |
| WE | 36 |
| ES | 4.9 in. |
| ET | 2.3 gal |
| DR | 18.3 g |
| OS | 0.7 cm |
| OL | 3 qt |
| IC | 4.6 fl oz |
| TH | 42 |
| OM | 121.4 gal |
| AN | 2.5 gal |
| OU | 3.5 in. |
| GO | 5.2 fl oz |
| AR | 150.2 min |
| TY | 16.9 in. |
| UN | 2.8 qt |
| EP | 17.8 g |
| EE | 0.2 cm |
| LL | 124.5 gal |

- 10** If it took 1.5 qt of paint to paint the wall on the left, how many quarts will be needed to paint the wall on the right?

