

Change the following into an improper fraction:

19a) $5\frac{7}{9}$

19b) $10\frac{2}{3}$

Write the following as a mixed number:

20a) $\frac{181}{7}$

20b) $\frac{43}{6}$

Find the following in the list: $\frac{5}{4}$, $\frac{7}{9}$, $\frac{6}{11}$, $\frac{13}{13}$, $\frac{23}{7}$, $\frac{75}{78}$, and $\frac{13}{6}$

21a) The proper fractions.

21b) The improper fractions.

Write the following as a fraction:

If four out of five dentists surveyed recommend sugarless gum to their patients that chew gum,

22a) What fraction of the dentists recommend sugarless gum?

22b) What fraction of the dentists did not recommend sugarless gum?

Reduce to lowest terms:

23a) $\frac{555}{600}$

23b) $\frac{168}{120}$

Find the prime factorization of the following:

24a) 720

24b) 364

Perform the indicated operations and reduce to lowest terms:

25) $\frac{4}{9} \cdot \frac{21}{8}$

26) $\frac{5}{16} \div \frac{7}{12}$

27) $\left(\frac{5}{8}\right)\left(\frac{4}{7}\right)\left(\frac{21}{9}\right)$

28) The product of $3\frac{1}{3}$ and $4\frac{1}{5}$.

29) $\frac{10}{21}$ divided into $\frac{6}{35}$.

30) $9\frac{2}{7}$ divided by $2\frac{4}{11}$.

Perform the indicated operations and reduce to lowest terms:

31) $\frac{5}{8} \div \frac{3}{4} \div \frac{3}{2}$

32) $7\frac{3}{8} \div 0$

33) 15 multiplied by $\frac{3}{5}$.

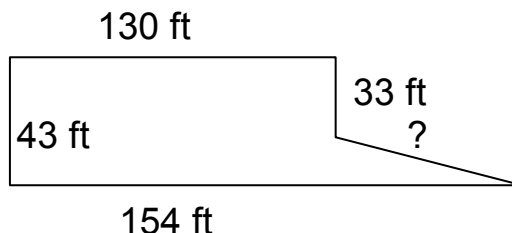
34) The quotient of 63 and $\frac{7}{9}$.

35) $0 \div 4\frac{3}{7}$

36) $\frac{7}{12} \div 21$

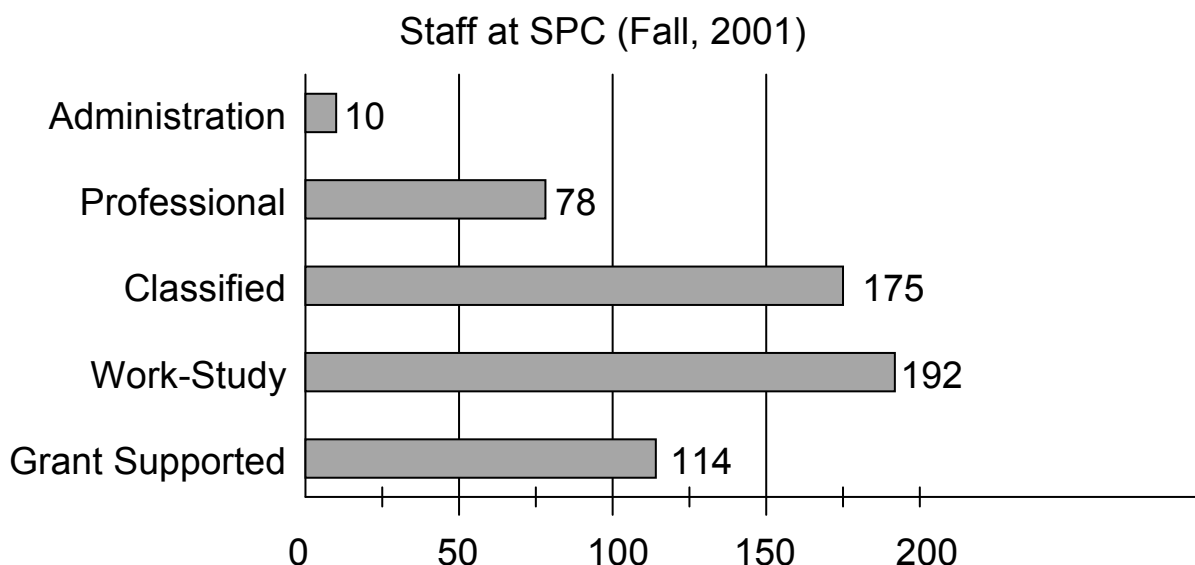
Solve the following:

- 37) If the perimeter of the figure on the right is 386 feet, find the length of the missing side.



- 38) Katz Katering Service provides 15 pounds of assorted cheeses for a banquet. If $\frac{4}{5}$ of the cheese is consumed during the banquet, how many pounds of the assorted cheeses are left?
- 39) A large loaf of bread requires $4\frac{1}{3}$ cups of flour to make. If large sack of flour contains 78 cups of flour, how many loaves of bread can be made?
- 40) An oil change station has 873 quarts of 5W20 motor oil in stock. On average, they will use 98 quarts of 5W20 motor oil a day. After seven days, the station will receive a shipment of 250 quarts of 5W20 motor oil. How much 5W20 oil will the station have in stock after the eighth day?
- 41) Sandy Cheeks paid three times as much as Sponge-Bob Square Pants for a lawn mower. If Sandy paid \$396 for her lawn mower, how much did Sponge-Bob pay for his?
- 42) Sponge-Bob can make thirty Krabby-Patties in two minutes. If there are two hundred forty anchovies to be fed, how many minutes will it take for Sponge-Bob to make them all a Krabby-Patty?

Use the graph below to answer the following:

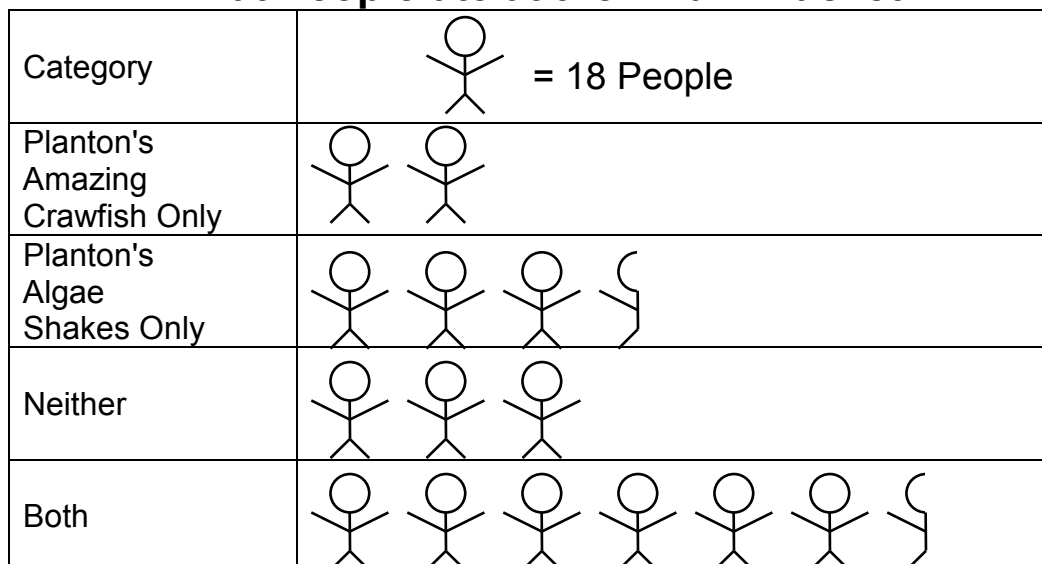


From Planning, Research and Effectiveness at SPC

- 43a) How many more people work as Grant Supported Staff than as Professional and Administration Staff combined?
- 43b) If 496 people were employed as faculty in the fall of 2001, how many more staff personnel were there than faculty in that semester?
- 44) An electrician purchases 6 light fixtures for \$18 each, 3 GFI outlets for \$15 each, and two spools of wire for \$10 each. If she gave the cashier \$200, how much did she get back in change?
- 45) If Shelton had 45 pounds of steak and each steak weighs $\frac{3}{5}$ of a pound, how many steaks does he have?
- 46) When Sponge Bob took Mr. Krab's daughter Pearl to her prom, he wore hydraulic legs that made him three and a half times as tall as what he normally is. If he is normally $5\frac{1}{3}$ inches tall, how tall was he with the hydraulic legs?

Use the graph below to answer the following:

What People ate at the Chum Bucket



47a) Write the fraction of the people that had a shake only

47b) Write the fraction of the people that had crawfish that also had a shake.

Answers

- 1) 11,284 2) 35,334 3) 8,894 4) 1034 5) 16,379
- 6) 1027 7) 198 8a) Undefined 8b) 0
- 9) 47,651,790; 47,651,800; 47,652,000 10) 47,500; 47,500; 47,000
- 11) 70; 100; 0 12) 18,930; 18,900; 19,000 13) 30 14) 43
- 15) 19 16) 8 17) 20 18) 39 19a) $\frac{52}{9}$ 18b) $\frac{32}{3}$
- 20a) $25\frac{6}{7}$ 20b) $7\frac{1}{6}$ 21a) $\frac{7}{9}, \frac{6}{11}, \frac{75}{78}$ 21b) $\frac{5}{4}, \frac{13}{13}, \frac{23}{7}, \frac{13}{6}$
- 22a) $\frac{4}{5}$ 22b) $\frac{1}{5}$ 23a) $\frac{37}{40}$ 23b) $1\frac{2}{5}$ 24a) $2^4 \cdot 3^2 \cdot 5$ 24b) $2^2 \cdot 7 \cdot 13$
- 25) $1\frac{1}{6}$ 26) $\frac{15}{28}$ 27) $\frac{5}{6}$ 28) 14 29) $\frac{9}{25}$ 30) $3\frac{13}{14}$
- 31) $\frac{5}{9}$ 32) undefined 33) 9 34) 81 35) 0 36) $\frac{1}{36}$ 37) 26 feet
- 38) 3 pounds 39) 18 loaves of bread 40) 339 quarts 41) \$132
- 42) 16 minutes 43a) 26 people 43b) 73 people 44) \$27
- 45) 75 steaks 46) $18\frac{2}{3}$ inches 47a) $\frac{7}{30}$ 47b) $\frac{13}{17}$