

1. Find the value of "X" in the following proportion

$$15 : 45 :: x : 135$$

(a) 75

(c) 35

(b) 45

(d) 25

2. Find the simple interest on \$3000 at the rate of 2% per annum in 146 days.

(a) 18

(c) 24

(b) 30

(d) 36

3. Sam borrowed \$2400 from her neighbors at the rate of 5% per annum. He returned the money after 5 months. Find the interest and amount paid by him.

(a) 450

(c) 420

(b) 440

(d) 430

4. Convert 3 hours 12 minutes into seconds.

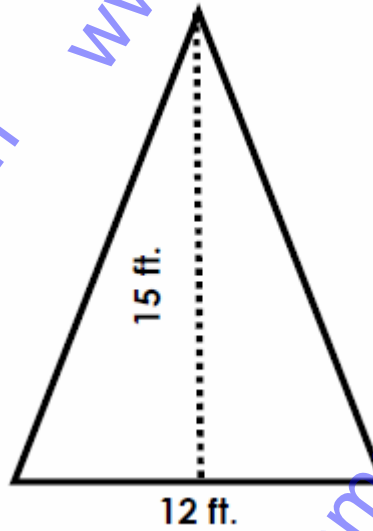
(a) 15520

(c) 17520

(b) 11520

(d) 16520

5. Find the area of the following triangle



(a) 90 sq.ft

(c) 80 sq.ft

(b) 450 sq.ft

(d) 210 sq.ft

6. Sally had 21 marbles. Her friend gave her some more. She then had 35 marbles. Write an expression that shows how many marbles she had.

(a) $21 + 35 = 56$

(c) $21 + x = 35$

(b) $x + 35 = 21$

(d) $x + 35 = 20$

7. Sam bought 3 sacks of potatoes. Each sack had 15 potatoes. He gave one sack to his friend Steve. How many potatoes did Sam have left?

(a) 30

(c) 45

(b) 50

(d) 70

8. Solve this expression. $25 + (15 - 7)$

(a) 33

(c) 43

(b) 53

(d) 63

9. Convert 156 inches into feet

(a) 11 ft

(c) 22 ft

(b) 24 ft

(d) 13 ft

10. Add 20% of a number to a given number 600

(a) 520

(c) 220

(b) 720

(d) 990

11. In how many ways can you put 9 coins of different values into 2 pockets?

(a) 415

(c) 512

(b) 765

(d) 755

12. The LCM of two numbers is 4800 and their HCF is 160. If one of the numbers is 480, then the second number is.

(a) 1600

(c) 4800

(b) 1200

(d) 1000

13. The area of a rectangle and square are equal. The side of the square is 5cm and the smaller side the rectangle is half that of the square. Find length of the other side of the rectangle

(a) 11 cm

(c) 10 cm

(b) 12 cm

(d) 14 cm

14. Akihito drew a shape that had 4 equal sides. Which shape could Akihito have drawn?

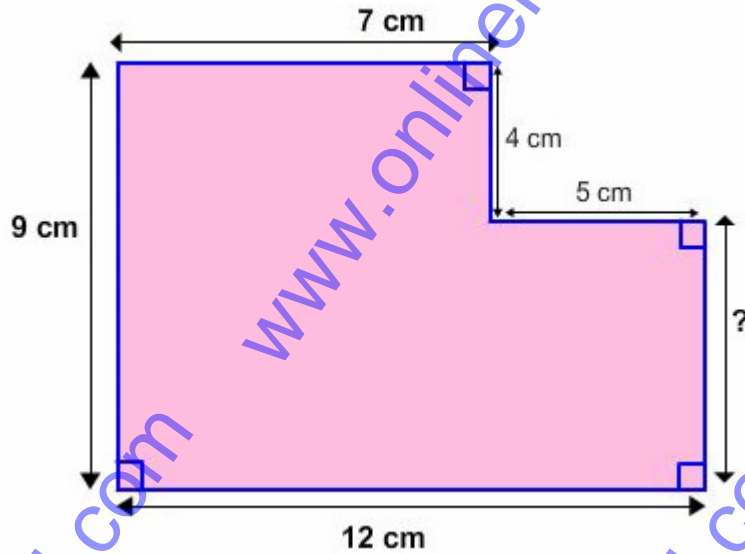
(a) Octagon

(c) Rhombus

(b) Hexagon

(d) Circle

15. Find the required value in the below picture



(a) 5 cm

(c) 10 cm

(b) 7 cm

(d) 8 cm

16. Solve this expression if $y = 9$

$$6y + (30 - 17)$$

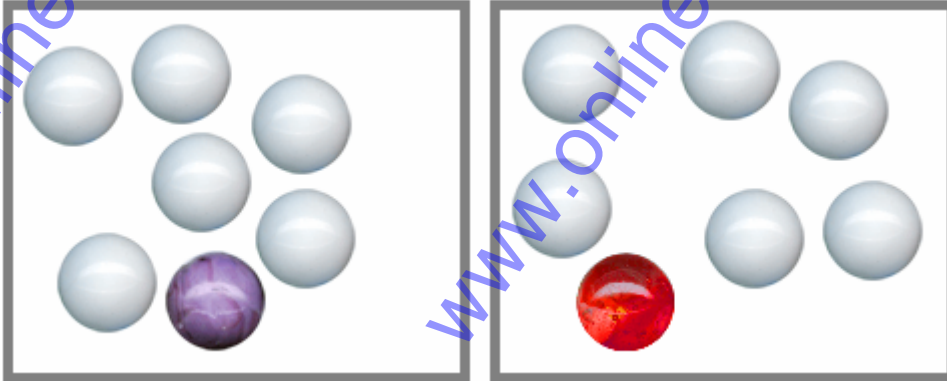
(a) 54

(c) 67

(b) 60

(d) 50

17. If you pick one of the marbles from each group, what is the probability of picking two white marbles?



(a) $91/46$

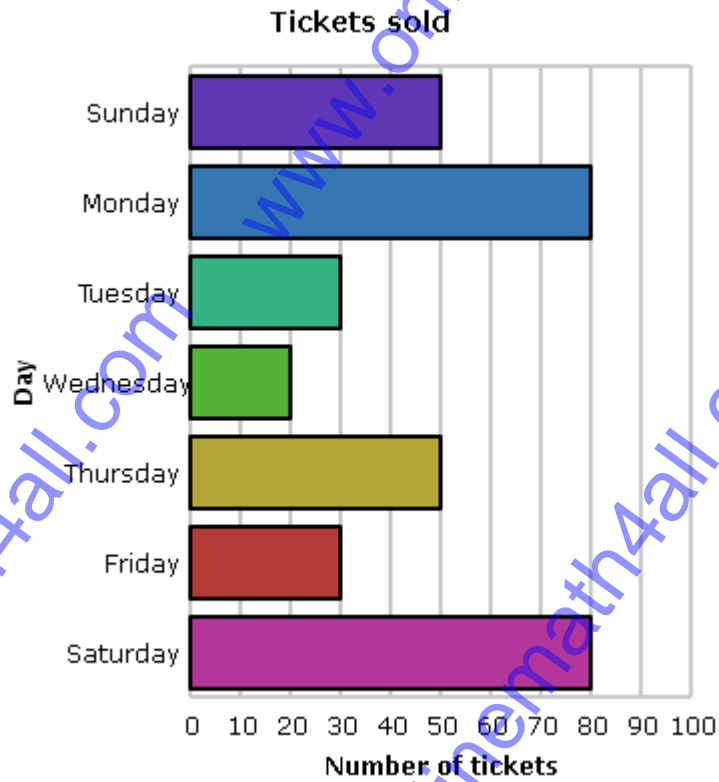
(c) $31/46$

(b) $36/49$

(d) $83/49$

18. The aquarium's records showed how many tickets were sold in the past 7 days.

What is the median of the numbers?



(a) 21

(c) 40

(b) 50

(d) 30

19. The perimeter of a parallelogram is 40cm and ratio between the adjacent sides is 2:3. If the altitudes corresponding to the larger side of the parallelogram is 16cm, find the area of the parallelogram.

(a) 56 cm^2

(c) 38 cm^2

(b) 58 cm^2

(d) 72 cm^2

20. The mean of 8, 5, x, 6, 10, 5 is 7. Find the value of x.

(a) 5

(c) 2

(b) 8

(d) 9

21. If A, B and C divide \$624 among themselves in the ratio $1/2$ $1/3$, $1/4$, what is the share of C?

(a) 111

(c) 122

(b) 133

(d) 144

22. Mina invited all her friends for a Halloween Party last night. Sadly, her friends were very unimaginative - they only wore pirate costumes or gorilla costumes. $\frac{3}{4}$ of her friends who wore pirate costumes was equal to $\frac{4}{7}$ of her friends who wore gorilla costumes. There were 260 more people wearing gorilla costumes than pirate costumes. How many people were invited to the party?

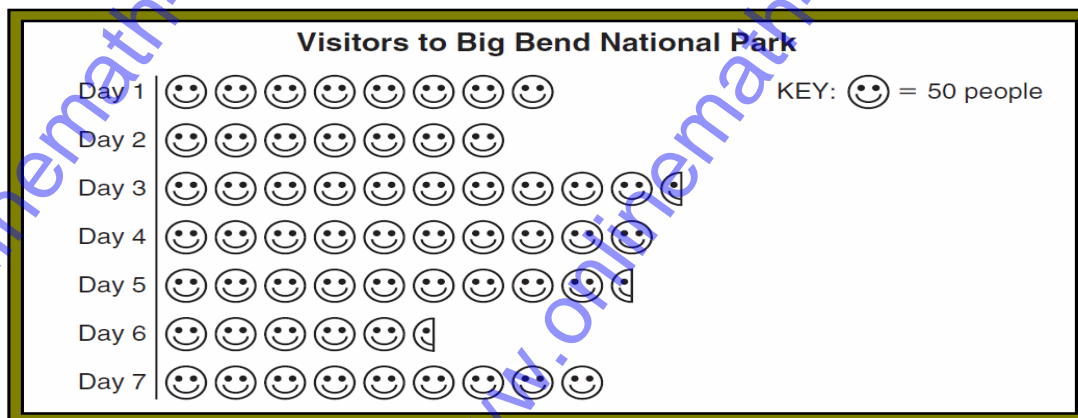
(a) 1454

(c) 1924

(b) 1854

(d) 1584

23. The pictograph below shows attendance at Big Bend National Park for one week in August. Use the data to answer the questions below.



How many people visited the park on Day 2?

(a) 400

(c) 300

(b) 350

(d) 450

24. Brian likes to feed the ducks. The first day he uses 1 slice of bread. The second day he uses 2 slices of bread. The third day he uses 3 slices of bread. If this pattern continues, how many slices of bread will he use on the tenth day?

(a) 19

(c) 10

(b) 13

(d) 14

25. Mrs. Stone makes 20 telephone calls per day. How many telephone calls does she make in the month of January?

(a) 630

(c) 613

(b) 620

(d) 629

26. Arthur accidentally added 7 to a number instead of multiplying that number by 7 on a math problem. His answer was 11. What should he have gotten as an answer?

(a) 28

(c) 49

(b) 30

(d) 40

27. To be prepared, Brain wants to carry 10 pencils with her at all times during school. Every hour, she gives one pencil to a friend and loses one pencil. If school is 8 hours long, at least how many pencils must Brain bring to school to remain prepared?

(a) 45

(c) 11

(b) 28

(d) 26

28. Express $11/5$ in decimal form.

(a) 4.4

(c) 5.5

(b) 2.2

(d) 3.3

29. A military clock, instead of having the numbers 1 through 12, has the numbers 1 through 24 evenly spaced around the circular face. What is the number directly across from 19?

(a) 8

(c) 7

(b) 6

(d) 5

30. Anne decided to take a pottery class. The class started at half past four, and lasted for forty-five minutes. What time did the class end?

(a) Quarter eight

(c) Quarter past four

(b) Quarter past five

(d) Quarter to six

31. For a class trip, Mr. Holbrook hires 2 buses, which can each hold 50 students. However, 123 students signed up for the trip. If a car can hold up to 4 students, what is the minimum number of cars needed in addition to the two buses to ensure that every student has a ride?

(a) 4

(c) 2

(b) 1

(d) 6

32. In a high school physical education class, 11 students know how to climb a tree. 6 of these students are male. There are 14 boys total in the class. 7 girls in the class do not know how to climb a tree. How many students are there in this class?

(a) 18

(c) 20

(b) 26

(d) 19

33. If Eugene counted to 600 by 6's, starting with 6, how many numbers did he count that are less than 600?

(a) 99

(c) 98

(b) 100

(d) 101

34. Hannah goes to Boston Market to eat lunch. She picks a piece of chicken for her main meal, and must select a side dish and a drink. The possible side dishes are mashed potatoes, corn, green beans, and cinnamon apples. The possible drinks are Coca Cola, Sprite, orange soda, iced tea, lemonade, and water. How many different meals can Hannah select?

(a) 24

(c) 16

(b) 21

(d) 28

35. Dan likes bowling, pool, and math. He decides to number the 10 bowling pins 1 through 10 and adds up the numbers on each pin, obtaining a number P . Then he numbers each of the 15 pool balls 1 through 15 and adds these up to obtain a number B . Find $B - P$.

(a) 63

(c) 64

(b) 65

(d) 66

36. Ashley's calculator only performs one process: when she enters a number, the calculator shifts the entire number one decimal place to the right, adds 11, and returns the resulting number. For example, if she enters 11, the calculator shifts 11 a decimal place to the right to give 1.1, then adds 11 which gives 12.1. If she gets back 32.5 as an answer, what was her original number?

(a) 230

(c) 215

(b) 240

(d) 250

37. Sixteen teams compete in a soccer tournament. Each game, one team wins and one team loses, and the losing team is eliminated. How many games must be played so that only one team remains undefeated?

(a) 12

(c) 15

(b) 13

(d) 14

38. What is the remainder when 6668 is divided by 6?

(a) 4

(c) 5

(b) 2

(d) 3

39. Sally has 7 coins, which together make 72 cents. Each coin is a penny, nickel, dime or quarter. How many dimes does Sally have?

(a) 1

(c) 4

(b) 3

(d) 2

40. Find the missing term in the following sequence

2, 4, 8, 16, _____

(a) 18

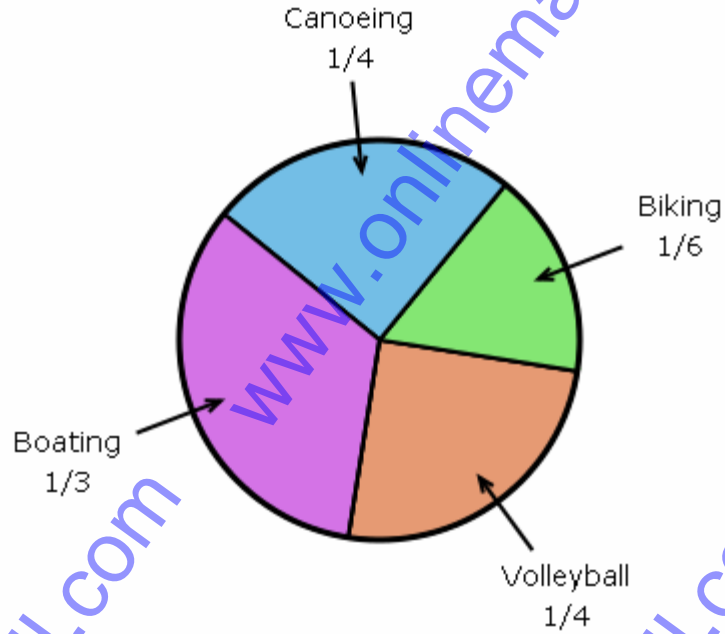
(c) 20

(b) 22

(d) 32

41.

Favorite outdoor activities



If 216 people were surveyed, how many more people voted for volleyball than for biking?

(a) 17

(c) 13

(b) 18

(d) 19

42. Connie took a test with 25 questions. For every question she got right, she earned 4 points, and for every question she got wrong, she lost 1 point. She answered every question, and got a score of 80. How many questions did she get right?

(a) 18

(c) 19

(b) 20

(d) 21

43. A person needs 1.5 liter of milk a day. How much would he need for the month of April?

(a) 45 liters

(c) 55 liters

(b) 48 liters

(d) 58 liters

44. Two sisters have their ages in the ratio 3:4. The elder sister is aged 16. What is the age of the younger sister?

(a) 10

(c) 12

(b) 11

(d) 16

45. In a cricket team of 11 players, the average age of 4 players is 17, the average age of 3 players is 18, and the average age of 2 players is 19. The average age of the whole team is 18. One of the players is aged 22. Find the age of the last player.

(a) 16

(c) 21

(b) 20

(d) 23

46. Mr. Justin wants to go to his relatives house in a town. The town is 104 km away. He covers 39 km in 3 hours. How many hours will he take to reach the town?

(a) 6 hours

(c) 5 hours

(b) 3 hours

(d) 8 hours

47. A book can be typed in 100 pages at 25 lines to a page and 12 words in a line. In how many pages can the same book be typed at 10 words per line and 20 lines per page?

(a) 180

(c) 150

(b) 140

(d) 120

48. Mr. Kelvin earns \$8400 in 3 years by depositing \$10000 in a bank. How much will he earn if he deposits \$15800 for 4 years?

(a) \$17696

(c) \$17969

(b) \$17869

(d) \$17525

49. The T.V programme starts at 5-30 p.m and continues up to 11-30 p.m. How many hours and minutes did it last?

(a) 10 hrs 45 min

(c) 3 hrs 45 min

(b) 5 hrs 45 min

(d) 6 hrs 45 min

50. A rectangle is of area 56 cm^2 . Its length is 8cm. What is its breadth?

(a) 7cm

(c) 5 cm

(b) 9 cm

(d) 6 cm

Answers

- | | | | | | |
|-------|-------|-------|-------|-------|-------|
| 1. b | 2. c | 3. a | 4. b | 5. a | 6. c |
| 7. a | 8. a | 9. d | 10. b | 11. c | 12. a |
| 13. c | 14. c | 15. a | 16. c | 17. b | 18. b |
| 19. d | 20. b | 21. d | 22. c | 23. b | 24. c |
| 25. b | 26. a | 27. d | 28. b | 29. c | 30. b |
| 31. d | 32. b | 33. a | 34. a | 35. b | 36. c |
| 37. c | 38. b | 39. a | 40. d | 41. b | 42. d |
| 43. a | 44. c | 45. a | 46. d | 47. c | 48. a |
| 49. b | 50. a | | | | |