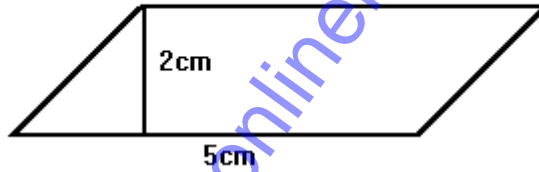1. What is the area of the parallelogram given below?

(a) 10 cm^2

(c) 14 cm^2

(b) 7 cm^2

(d) 15 cm^2

2. Chatterbox made the following figures with a piece of wood, 12 nails and an elastic band. What is the area of the figure (in units^2)?
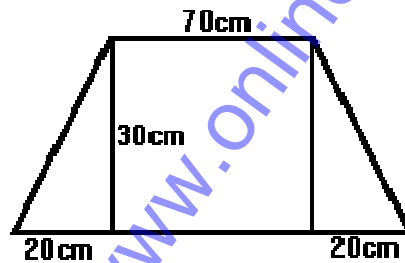

(a) 1½

(c) 2½

(b) 3½

(d) 4½

3. Two carpenters decided to design desks for students at the Junior High. The dimensions of the desk are as shown. How much wood would they need for 30 desks? (in cm²).

(a) 82000 cm²

(c) 83000 cm²

(b) 81000 cm²

(d) 84000 cm²

4. The peel of a banana weighs about 1/8 of the total weight of the banana. If you buy 3 kg of bananas at 1kg for $0.60, about how much are you paying for the banana?

(a) $1.57

(c) $2.57

(b) $5.57

(d) $3.27

5. The greatest common factor of two numbers is 30. Their least common multiple is 420. One of the numbers is 210. Can you find the other number?

(a) 10   (c) 50
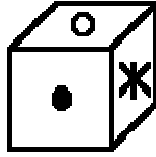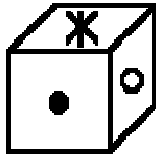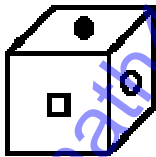
(b) 20   (d) 60

6. Here's a question for you!!!

One of these things does not belong here, one of these things is not the same. Can you tell which cube?

(a) The second cube from left.

(b) The third cube from left.

(c) The First cube from left.

(d) The third cube from right.

7. The total bus fare was $2.10. What was the distance traveled when the fare is $0.90 for the first 1/3 km and $0.10 for each 1/8 additional kilometer?

(a) (12/13) km

(c) (11/6) km

(b) (11/8) km

(d) (13/15) km

8. The magician said, "The average of seven numbers is 49. If 1 is added to the first number, 2 is added to the second number, 3 is added to the third number and so on up to the seventh number", what is the new average?

(a) 70

(c) 60

(b) 82

(d) 53

9. Cheri, Beth and Jacinta are daughters of Mr. Sullivan, Mr. Marchand and Mr. Benoit. Four of these people are playing tennis doubles. Mr. Benoit's daughter and Mr. Sullivan are partners. Cheri's father and Mr. Marchand's daughter are also partners. There aren't any father-daughter combinations. Who is Cheri's father?

(a) Mr. Benoit

(c) Sullivan

(b) Marchand

(d) None of them

10. Porky's house had 100m^2 of living space. Then he added a room that was 4m by 5m. What was the fractional increase of living space? What was the percent of increase in living space?

(a) 10%

(c) 15%

(b) 20%

(d) 30%

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11. Jeremy had this problem on his first mathematics examination. He was having big problems with answering the question. Replace each letter with a different number. Identical letters should be replaced with the same number.

```
        SPART
    x       4
    ----------
        TRAPS
```

Can you help him?

(a) 89912

(c) 87792

(b) 87921

(d) 87912

12. If a=3 then what will be the value of 13+a?

(a) 15   (c) 17

(b) 16   (d) 18

13. The Pictou Ferryboat is full when it has ten cars on board. It is also full when it has six trucks on board. The ferryboat never carries cars and trucks at the same time. The ferryboat made five trips across the river and was full on each trip. It carried a total of 42 cars and trucks across the river. How many cars did the ferryboat carry altogether in the five trips?

(a) 10   (c) 30

(b) 20   (d) 40

14. Derek started his car (automatic shift) drove 9 km and spent 3 minutes waiting at traffic lights. About how much gasoline did Derek's car use?

CHART GIVEN:

AUTOMOBILE FUEL USAGE

Starting	.015 Liters
Idling for 1 minute	.047 Litres
Moving	
Manual Shift 30km	3.0 Litres
Automatic Shift 27km	3.0 Litres

(a) 7.56 liters   (c) 3.79 liters

(b) 4.356 liters   (d) 1.156 liters

15. Carpeting is on sale and Mrs. Doyle is looking for some carpet for her living room. Her living room is 4m by 5m. How much will it cost her to do this at sale price?

CARPET SALE
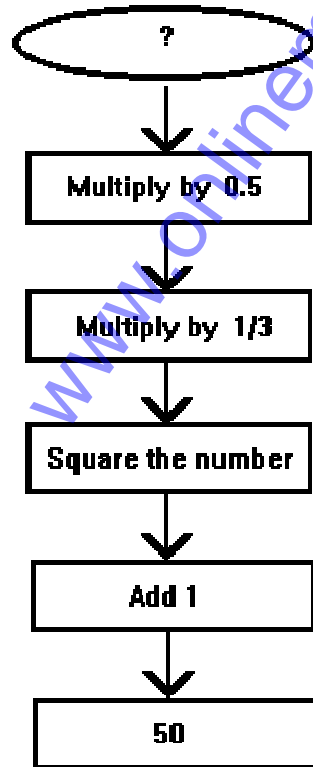Regular $9.99 square metre

Now on Sale for

20 percent off

(a) $157.84

(b) $158.84

(c) $159.84

(d) $160.84

16. What is the starting number (?) ?

(a) 42

(b) 43

(c) 44

(d) 45

17. A manufacturer claims that a new motor oil saves 5 percent of the gasoline used by a car. If you drive 24,000 kilometers a year and he gets 32 kilometers a gallon of gasoline, how many gallons of gasoline could you save in 1 year?
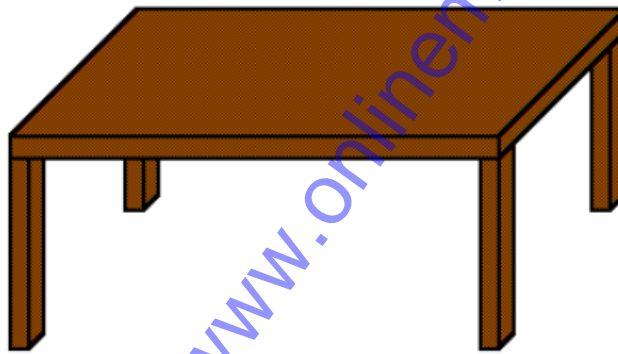
(a) 23

(c) 8.75

(b) 37.5

(d) 10

18. A rectangular kitchen table is three times as long as it is wide.

If it were 3m shorter and 3 m wider it would be a square.

What are the dimensions of the rectangular table?

(a) 2m, 6m

(c) 3m, 9m

(b) 4m, 12m

(d) 8m, 24m

19. The number of hours that were left in the day was one-third of the number of hours already passed. How many hours were left in the day?
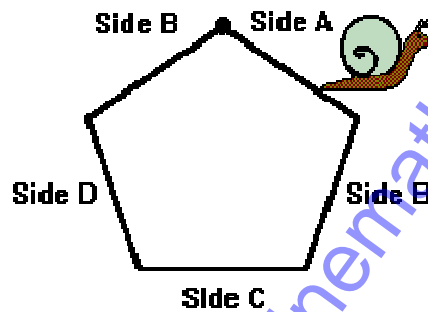
(a) 6　　　　　　　　　　　　(c) 4

(b) 5　　　　　　　　　　　　(d) 3

20. Shane the Snail started at the dot. What side will he be on when he has crawled 13/20 of the distance around the regular pentagon of equal sides?

(a) side A　　　　　　　　　　(c) side C

(b) side B　　　　　　　　　　(d) side D

21. A side of square B is four times the length of a side of square A. How many times greater is the area of square B than the area of square A?

(a) 16 times   (c) 22 times

(b) 20 times   (d) 25 times

22. Rob wanted an allowance. His father gave him a choice of getting it on a weekly or on a daily basis. He said he would either pay him $1.25 a week or pay him in the following manner for a week: On Monday he would give him $0.01; On Tuesday $0.02; On Wednesday $0.04 and on through Sunday. What would you tell Rob to do so he can get more allowance?

(a) Daily allowance   (c) Weekly allowance

(b) Monthly allowance   (d) Hourly allowance

23. Ammie passed around a basket of strawberries to the girls at her party. Before the party she ate 5 strawberries and gave a friend 3. Eight girls arrived at the party. The first girl took a strawberry, the second girl took 3 strawberries, the third girl took 5 strawberries and so on. After the last girl took her strawberries, the basket was empty. How many strawberries were in the basket at the beginning?

(a) 25

(b) 44

(c) 36

(d) 72

24. Farmer Tom put a square fence around his vegetable garden to keep the deer from eating his corn. One side was 10m in length. If the posts were placed 2m apart, how many posts did he use?

(a) 14

(b) 15

(c) 16

(d) 17

25. a) Mr. and Mrs. Callahan and their 3 children paid $7.00 for tickets. Which game do they plan to see?

```
SOFTBALL:          Adults $2.00    Children $1.00
BASKETBALL:        Adults $3.00    Children $1.50
SOCCER:            Adults $5.00    Children $2.50
```

b) How much change would Mr. and Mrs. Callahan get if they took their children to see the basketball game and paid for it with a $20.00 bill?
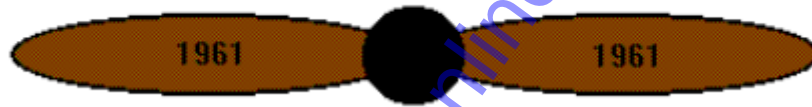
(a) $3.50   (c) $4.00

(b) $12.00   (d) $10.50

26. Mary and Jason were making propellers for their wooden helicopters. Mary put a number on her propeller and noticed that when she turned the propeller she had the same number.

Jason was trying to think of a number that he could put on his that had the same rotational symmetry (looks the same turned upside down). What is the next larger number that has this property?

(a) 6007   (c) 6009

(b) 6008   (d) 6010

27. The average of 50 numbers is 38.If two numbers namely 55 and 45 are discarded, the average of the remaining number is
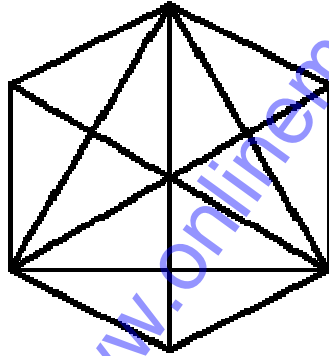
(a) 38.5   (c) 37.5

(b) 32.5   (d) 34.5

28. How many triangles are in this figure?

(a) 32

(c) 52

(b) 37

(d) 53

29. Ethel made a list of all the whole numbers between 1 to 100. How many times did she write the number 2?

(a) 12 times

(c) 17 times

(b) 6 times

(d) 19 times

30. A Drug Store parking lot has space for 1000 cars. 2/5 of the spaces are for compact cars. On Tuesday, there were 200 compact cars and some standard size cars in the parking lot. The parking lot was 3/4 full. How many standard size cars were in the parking lot?

(a) 500

(c) 390

(b) 450

(d) 650

31.


```
        ( ? )
          |
          v
  Multiply by 308
          |
          v
  Multiply by .10
          |
          v
    Divide by 3
          |
          v
       462
```
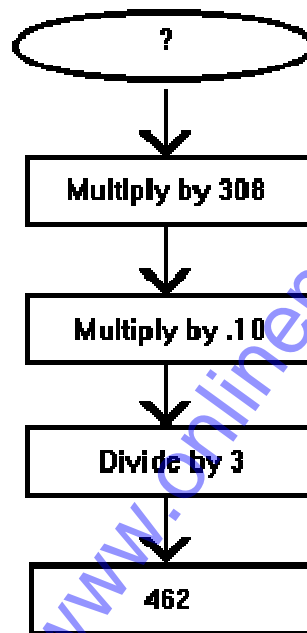
What is the number you started with?

(a) 50

(c) 39

(b) 45

(d) 65

32. Dennis the Menace is thinking of two numbers. Their greatest common factor is 6. Their least common multiple is 36. One of the numbers is 12. What is the other number?

(a) 20

(c) 19

(b) 25

(d) 18

33. Find the sum of the following expressions:

$$5x-7, 7x-4, 2x+5$$

(a) 14x-6

(c) 14x+3

(b) 14x+6

(d) 14x-3

34. If you saved $2.00 on January 1, $4.00 on February 1, $6.00 on March 1, $8.00 on April 1, and so on, how much money would you save in one year?

(a) $144

(c) $96

(b) $156

(d) $104

35.

SALE

Celtic Bakery Sale

White Bread	–	2 for $1.25
Rye Bread	–	2 for $1.35
Onion Rolls	–	6 for $1.00
Hamburger Buns–		6 for $0.85
Hot Dog Buns	–	6 for $0.69

Melanie and Kevin are going shopping for their mom at the Celtic Bakery. They were told to buy 15 onion rolls, 10 hamburger buns and 2 loaves of rye bread. How much will it cost them?

(a) $8.25   (c) $7.19

(b) $6.30   (d) $5.27

36. Mr. Mason asked the children to open their math books to the facing pages whose page numbers add up to 85. To which pages should the children turn?

(a) 40 & 41   (c) 43 & 42

(b) 45 & 46   (d) 47 & 48

37. Jill was given 3 red candies, 2 blue candies and 2 yellow candies. Use several ratios to describe the candies Jill has.
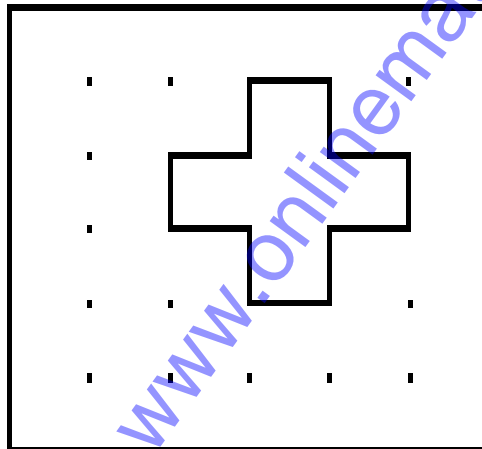

(a) 6

(c) 8

(b) 7

(d) 9

38. What is the least fraction of a full turn you could turn this geoboard for the shape to look the same?

(a) 1/4

(c) 1/3

(b) 1/2

(d) 1/5

39. If you are given the following questions: How many Russian rubles can you buy with $300.00 Canadian? What other information do you need in order to solve the problem?

You need to know the exchange rate. How many rubles you can get per one Canadian dollar?

So if the question now reads, "How many Russian rubles can you buy with $300.00 Canadian knowing the exchange rate of 20 rubles/Canadian dollar." What would be your answer?

(a) 4500   (c) 6000

(b) 5000   (d) 6500

40. I am an astronomer and my camera lens is 1.372m across. My friend George is a spy and he has a camera lens of 2.9cm across. My aunt Marie is a surgeon and she has a lens 1.5cm across.

How many more meters across is my camera lens than Marie's?

(a) 1.343 m greater than Marie's.

(b) 1.343 m less than Marie's.

(c) 2.343 m greater than Marie's.

(d) 2.343 m less than Marie's.

41. The average monthly rainfall for 6 months was 28.5 mm. If it had rained 1mm more each month what would the average have been? By how much would the total have been increased in six months and by how much would average have been increased per month?

(a) 3 mm

(c) 1 mm

(b) 2mm

(d) 0.5 mm

42. If a tailor uses 3/4 m of cloth to make a skirt, how much cloth does he need for 7 skirts?

(a) 9/4 m

(c) 4/21 m

(b) 4/9 m

(d) 21/4 m

43. Dave gave Charlotte half of his pogs. Charlotte gave Johnnie half of the pogs she received from Dave. Johnnie kept 8 of those pogs and gave the remaining 10 to Dana. How many pogs did Dave give Charlotte?

(a) 75

(c) 11

(b) 36

(d) 25

44. Jenny bought 7 t-shirts, one for each of her seven brothers, for $9.95 each. The cashier charged her an additional $13.07 in sales tax. She left the store with a measly $7.28. How much money did Jenny start with?

(a) $45

(c) $90

(b) $80

(d) $100

45. Elmer Fudd decided to grow a garden so he could make salad. He wants to make it 10.1 m long and 4.2 m wide. However, in order to avoid Bugs Bunny from entering his garden he must make a fence surrounding the garden. He decides to make the fence 11.2 m long and 5.0 m wide. What is the area between the fence and the garden?

(a) 13.58 m^2

(c) 12.58 m^2

(b) 16.58 m^2

(d) 14.58 m^2

46. Uncle Henry was driving to Halifax when he spotted a big green gorilla on the side of the road. He screeched to a stop, jumped out of his car. He saw the outline of a number on the gorilla. He couldn't quite see the number, but he knew it was a 4 digit number. And:

1) He remembered seeing a number 1.

2) In the hundred's place he remembers the number is 3 times the number in the thousand's place.

3) He said the number in the one's place is 4 times the number in the ten's place.

4) Finally he said the number 2 is sitting in the thousand's place.

What is the number?

(a) 2613   (c) 2615

(b) 2614   (d) 2616

47. If you saved $2.00 on January 1, $4.00 on February 1, $8.00 on March 1, $16.00 on April 1, and so on. How much money would you save in one year?

(a) $8190   (c) $7190

(b) $6190   (d) $5190

48. Mark accidentally tore out a page of his math book. Mr. Mason asked him what page it was. Mark said that the sum of the page numbers on the facing pages was 127. What are the page numbers on the pages Mark tore out of the book?

(a) 64 & 65

(c) 65 & 66

(b) 62 &63

(d) 63 & 64

49. Divide 2.345 by 0.05.

(a) 0.469

(c) 46.9

(b) 4.69

(d) 469

50. Find the L.C.M of 14, 28 and 49.

(a) 193

(c) 195

(b) 194

(d) 196

Answers:

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