



Exam Sheet  
Grade-3  
GSW Junior  
Mathematics  
Tournament

March 8

2014

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Grade -3

**DO NOT OPEN UNTIL YOU ARE INSTRUCTED TO DO SO**

1) 
$$\begin{array}{r} 123 \\ + 456 \\ \hline \end{array}$$

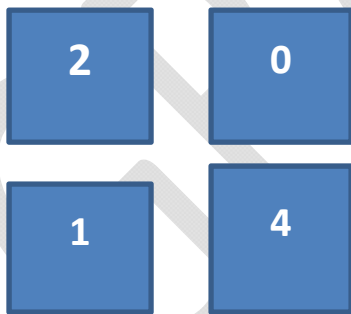
2) Bill has 8 nickels. Jay has 5 dimes. Kailash has a quarter and 12 pennies. Who has the most money?

3) What is the missing first number in the sequence?  
\_\_\_\_, 11, 15, 19, 23

4) The time is 10:40 A.M. Lakeisha will meet her friend in 45 minutes. At what time will Lakeisha meet her friend?

5) Five hours before 1:00 P.M. is what time?

6) Lee has 4 cards with the numerals 2, 0, 1, 4. What is the largest number that Lee can form with the cards?

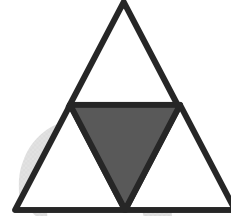


7) 
$$\begin{array}{r} 987 \\ - 127 \\ \hline \end{array}$$

8)  $987 - 888 + 5 = \underline{\quad}$

9) Roberto is carrying groceries in from the car. If he can take 2 bags at a time, how many trips will it take for him to carry in 9 bags?

10) What fraction of the triangle is shaded?



11) Which weight is greatest?  
A. 6.24 lbs  
B. 6.4 lbs  
C. 6.345 lbs  
D. 6.099 lbs

12) What number goes in the box?

$$8 + \square = 72$$

13) The Jones are planning to complete a 2300 mile trip to Disneyland in three days. If they drive 696 miles the first day and 723 miles the second day, how many miles must they drive on the third day?

14) Write the numeral that has 3 tens, 5 hundreds, 7 thousands, and 9 ones.

15) What number goes in the box?

$$\frac{\square}{3} = 4$$

16) In an auditorium there are 16 rows of chairs with 21 chairs in each row. How many chairs are in the auditorium?

17) While at Wild Kingdom, Jaiden counted 49 zebras, 33 monkeys, and some giraffes. If the total number of zebras, monkeys, and giraffes is 91, how many giraffes are there?

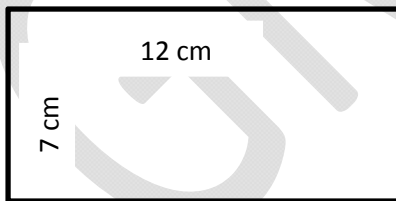
18) A third-grade math class is selling boxes of cookies to raise money. The table shows the number of boxes that four of the students sold.

Zoey	o o o o
Nikki	o
Jessica	o o o
Mila	o o o o o o

o = 5 boxes of cookies sold.

How many boxes of cookies did Zoey sell?

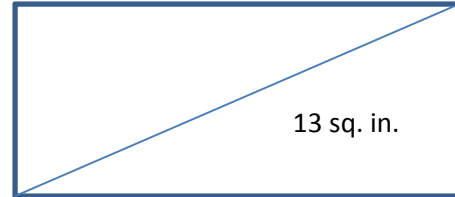
19) What is the perimeter of the rectangle?



20) Which number is closest to 1000?

- A. 990
- B. 909
- C. 1009
- D. 1090

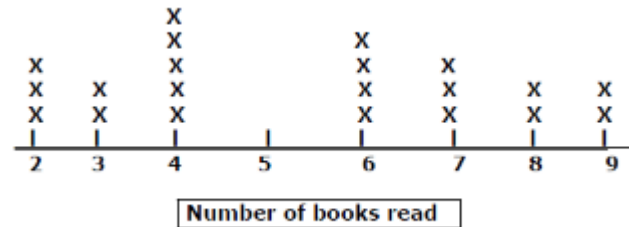
21) If the area of the triangle in the lower right corner is 13 square inches, what is the area of the rectangle?



22)  $2 \times 3 - 2 + 10 = \underline{\quad}$

23) There are 10 students in Mr. Anderson's class, 14 students in Ms. Bailey's class, and 21 students in Ms. Cook's class. What is the total number of students in these three rooms?

24) In Ms. Ricardo's reading class, each student recorded the number of books that they read in February. How many students read at least 6 books in February?



25) There are 18 peaches. You and your friend are packing peaches into bags with 3 peaches in each bag. How many bags will you need?

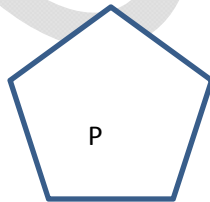
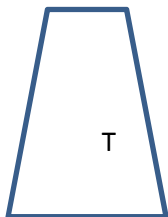
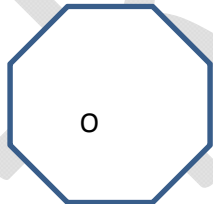
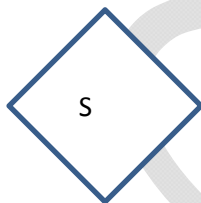
26) Aisha has 20 chocolates. She gives half to Keisha. Keisha gives half of her chocolates to her sister. How many chocolates does Keisha's sister have?

27) A toy costs \$19.50. You have 6 dollars, two dimes, and a nickel. How much more money do you need to buy the toy?

28) A donut costs \$1.00. You have \$3.00. How much more money do you need in order to buy a dozen donuts?

29) One fourth of Latoya's class are boys. There are 5 boys in her class. How many students are in the class?

30) What common English word is spelled by writing the labels of the four figures in this order: pentagon, octagon, square, trapezoid?

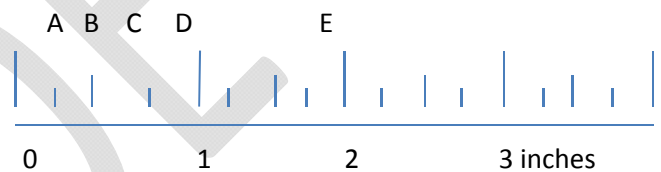


31) There are three teachers. Each teacher has seven boys in their class. How many boys are in the three classes?

32) There are 5 parents at the park. Each parent has 3 kids. 6 of the kids are boys. How many are girls?

33) You have 8 peppermints and your friend gives you 15. How many peppermints do you have now?

34) Which letter is above the  $\frac{1}{4}$ -inch mark?



35) Which fraction is equivalent to  $\frac{3}{6}$ ?

- A.  $\frac{2}{3}$
- B.  $\frac{3}{4}$
- C.  $\frac{6}{12}$
- D.  $\frac{6}{8}$

36) How many rectangles can be found in the following figure?



37) Which is the smallest number?

- A.  $6/2$
- B.  $6 \times 2$
- C.  $6 + 2$
- D.  $6 - 2$
- E. 62

38) What number is 12 more than 10?

39) Write the numeral 11 thousand fifteen.

40) Shavonne is making a square sign for a class fair. The top side of the square measures 10 inches. Which number sentence would allow Shavonne to find the area of the sign?

- A.  $10 + 10 + 10 + 10 = 40$
- B.  $10 \times 10 = 100$
- C.  $2 \times 10 = 20$
- D.  $(1/2) \times 10 \times 10 = 50$

41)  $(3+3) + (3-3) + (3 \times 3) + (3/3) = \underline{\quad}$

Answers:

- 1) 579
- 2) Jay
- 3) 7
- 4) 11:25 A.M.
- 5) 8:00 A.M.
- 6) 4210
- 7) 860
- 8) 104
- 9) 5
- 10)  $\frac{1}{4}$
- 11) B
- 12) 64
- 13) 881
- 14) 7539
- 15) 12
- 16) 336
- 17) 9
- 18) 20
- 19) 38
- 20) C
- 21) 26 square inches
- 22) 14
- 23) 45
- 24) 11
- 25) 6
- 26) 5
- 27) \$13.25
- 28) \$21.00
- 29) 20
- 30) POST
- 31) 21
- 32) 9
- 33) 23
- 34) A
- 35) C
- 36) 9
- 37) A
- 38) 22
- 39) 11015
- 40) B
- 41) 16



Exam Sheet  
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Grade -4

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1. What number goes in the box?

$$\square + 2000 = 3000$$

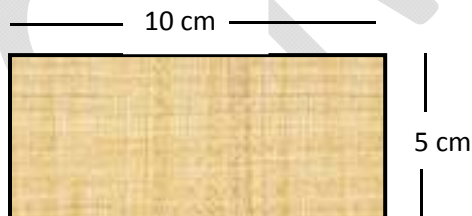
2. If a watermelon costs \$5.00 and an orange costs \$1.00, how much does it cost to buy 2 watermelons and 2 oranges?

3. What is the value of  $\square$  if  $121 + 2,200 = \square$

4.  $1 + 9 + 12 + 8 + 20 = ?$

5. John has \$24.00 and his brother Jason has one-third of what John has. How much money do John and Jason have together?

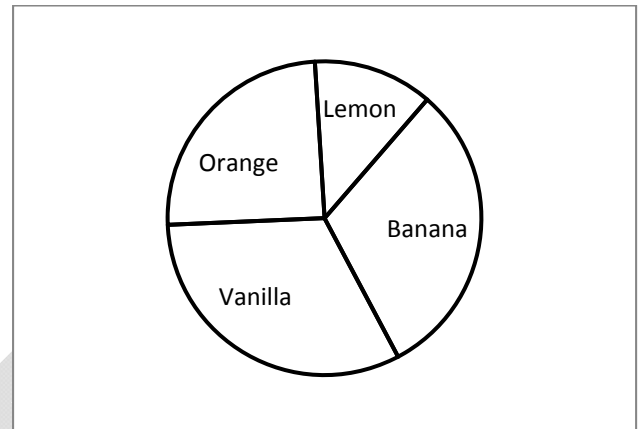
6. What is the area of the shaded region in square cm?



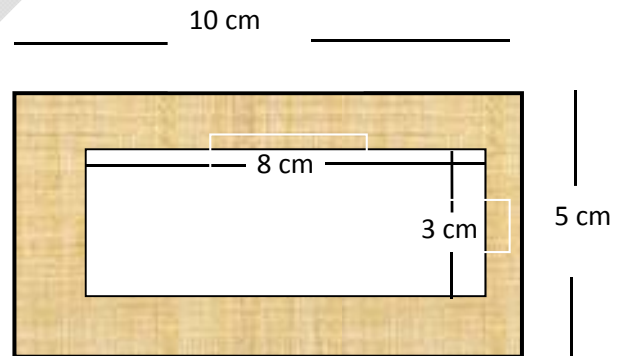
7. Add:

$$\begin{array}{r} 290 \\ 300 \\ + 310 \\ \hline \end{array}$$

8. The pictogram is for the preferences of flavor for 800 students. Which flavor is preferred by about 200 students?



9. What is the area of the shaded region in square cm?



10. If  $x = 10$  and  $y = 2$ , what is  $10 + x + y$ ?



11.  $(21 \times 20) - 24 = ?$
12. A number when doubled and then decreased by 10 gives you 32. What is the number?

13. What comes next?  
1, 5, 9, 13, ..

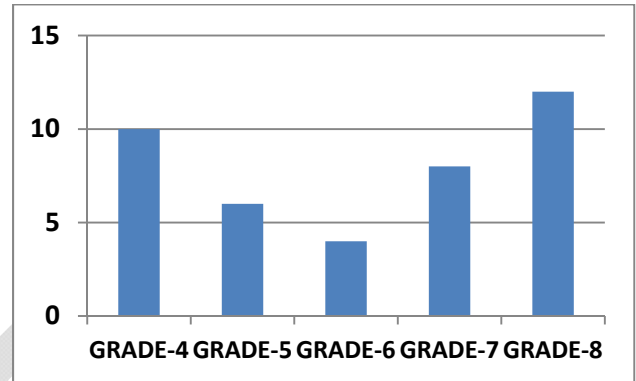
14. Carla reads 8 books and each book has 210 pages. How many pages does Carla read?

15. What comes next?  
1, 2, 4, 7, 11, ..

16. What number goes in the box to make the sentence true?  
 $(5+3) \times 6 = \square \times 3$

17. Three cones of ice cream cost \$9.00. How much do 10 cones of ice cream cost?

18. The following bar graph shows the number of students in a local school from grade 4 to grade 8 who went to a concert.



How many more eighth graders went to the concert than fifth graders?

19. How many acute angles does this figure have?



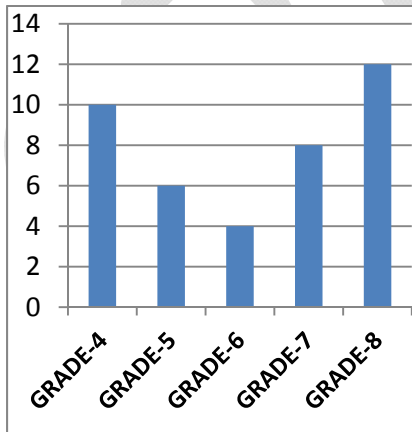
20. A square has area of 36 square inches. What is its perimeter?

21. Half of a number is 12 more than 23. What is the number?

22. You drank  $\frac{2}{3}$  cup of milk and your brother drank  $\frac{2}{6}$  cup of milk. How many cups of milk did you and your brother drink together?

23. A Mathematics tournament starts at 9:30am and lasts for 3 hours 45 minutes. At what time will the tournament end?

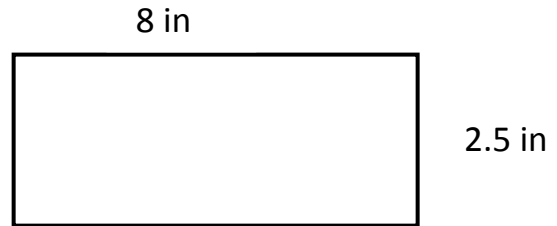
24. The following bar graph shows the number of students in a local school from grade 4 to grade 8 who went to a concert.



How many total students went to the concert?

25. Write  $\frac{4}{5}$  as decimal.

26. Find the area of the rectangle:



27. Movie tickets cost \$5.00 for an adult, and \$2.50 for a child. How much does it cost for 4 adults and 4 children?

28. A bag has 11 green marbles and 5 blue marbles. What fraction of the marbles in the bag are green?

29. A bag has 11 red, 6 black and 6 blue marbles. What fraction of the marbles in the bag are red?

30.  $3 + (6 \times 0) - (26 \div 13) + 9 \times 6 - 20 = ?$

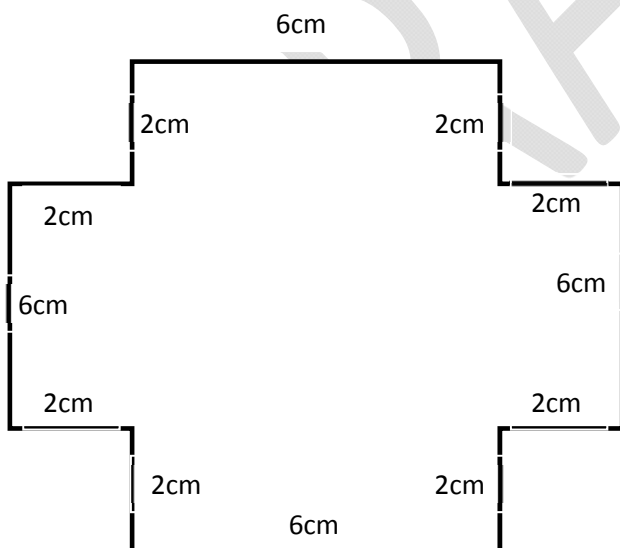
31. Jay's age is twice Ray's age and May's age is twice Jay's age. How old is Ray if May is 44 years old?

32. What is the double of  $3\frac{1}{2}$ ?

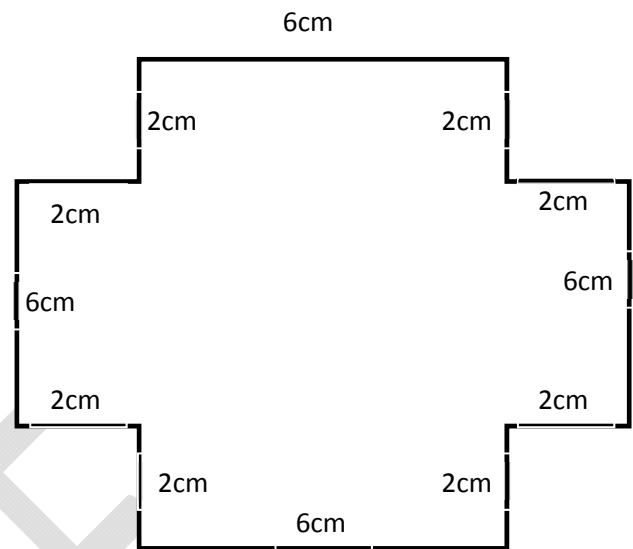
33. There are 17 teams in the GSW math tournament. Each team has 11 students. How many students are in the tournament?

34. There are 17 teams in the GSW math tournament. Five of the teams have 11 students and the rest of the teams have 12 students. How many students are in the tournament?

35. What is the area of the following figure?



36. What is the perimeter of the following figure?





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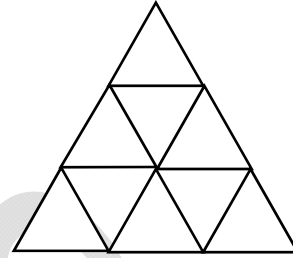
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Grade -5

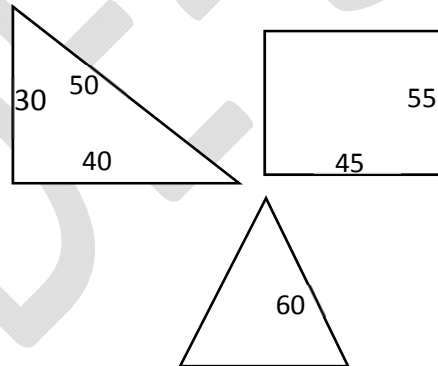
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- 1)  $4444 \times 11 = \underline{\hspace{2cm}}$
- 2)  $1 \times 2 \times 3 \times 4 \times 5 \times 6 = \underline{\hspace{2cm}}$
- 3) Dogs have 4 legs each, grasshoppers have 6, and spiders have 8. How many total legs would 5 dogs, 3 grasshoppers and 4 spiders have?
- 4) Erica was assigned 70 books to read from January through May. If she reads 10 in January, 12 in February, 15 in March and 20 in April, how many must she read in May to complete this assignment?
- 5)  $8 + 9 + 5 + 3 + 6 + 4 + 7 + 5 + 1 + 2 = ?$
- 6)  $9 + 9 \times 9 - 9 \div 9 = ?$
- 7)  $100,008 \div 9 = ?$
- 8) Mrs. Smith class has 30 students and 40% are boys. Half the boys in Mrs. Smith class ride the bus to school. How many boys in Mrs. Smith's class ride the bus?
- 9)  $18 - 36 \div 9 + 9 = ?$

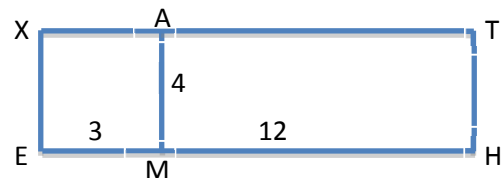
- 10) The diagram contains triangles of 3 sizes: small, medium, and large. What is the total number of triangles of these three sizes?



- 11) What is the sum of the perimeters of these three figures? The triangle is equilateral.



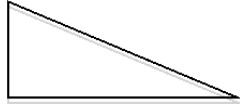
- 12) How many times larger is the area of rectangle MATH than the area of rectangle EXAM?



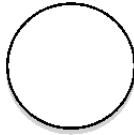
13) Which figure has the largest area?



A) **A Square** 18 units each side.



B) **A Right triangle** with legs of length 15 and 40.



C) **A Circle** of radius 10.

14) My birthday is December 30th. My son's birthday is February 10. How many days after my birthday is my son's?

15) Nikki leaves home at 7:15 am and returns at 3:45 pm on each school day. How many hours per day is she away from home?

16) On January 15 the temperature in Denver started the day at  $-12^{\circ}\text{F}$  and reached  $27^{\circ}\text{F}$  by that afternoon. What was the temperature range that day?

17)  $3 \times \boxed{?} + 7 = 34.$

18)  $1 \times 19 + 2 \times 19 + 3 \times 19 + 4 \times 19 = ?$

19)  $\frac{4 \times 4 \times 4 \times 4}{2 \times 8 \times 2 \times 8} = ?$

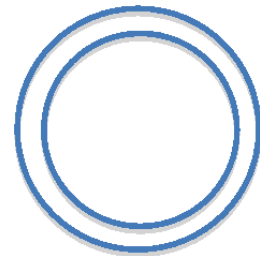
20)  $55 \times 33 - 54 \times 33 = ?$

21) If hamburgers cost \$2.25 each, fries cost \$1.50 each, and soft drinks are \$1.25 each, how much would it cost to feed 7 people who each order a hamburger, fries, and a soft drink?

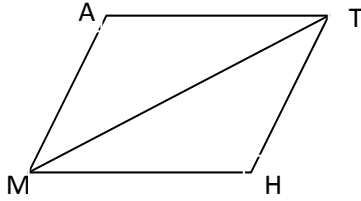
22)  $1.35 + 2.063 + 7.587 = ?$

23) Which is the least:  $\frac{3}{2}, \frac{2}{3}, \frac{3}{3}, \frac{6}{5}, \frac{5}{6}$ ?

24) The larger circle has radius 5 and the smaller circle has radius 4, the smaller circle's area is what percent of the area of the larger circle?



- 25) The area of parallelogram MATH is how many times larger than the area of triangle MAT?



- 26) What is the perimeter of a square, in inches, that has a side of length  $3\frac{1}{4}$  inches?

- 27) What is the mean (average) of the numbers 13, 15, 11, 14, 16, 19, 15, and 17?

28)  $1007 \times 7001 = ?$

- 29) What is 300% of 45?

- 30) If 1 inch of rain is equivalent to 10 inches of snow, how much rainfall would be measured from a 14-inch snowfall?

- 31) Choose the largest number from this list:  
7.3016, 7.036, 7.360, 7.1306, 7.3106

- 32) A sheet of printer paper measures 8.5" x 11". What is the total surface area, front and back, of this sheet?

- 33) Jack has \$4.40 and Abi has 25% more than Jack. How much money do they have together?

- 34) A certain rectangular quilt has 25 rows with 44 square blocks per row. How many total blocks make up this quilt?

- 35) Derrick runs 3.2 kilometers in a race. How many meters does he run?

- 36) Which is more w, x, y, or z?

$$w = 2 \times 2 \times 2 \times 2 \times 2$$

$$x = 3 \times 3 \times 3 \times 3$$

$$y = 4 \times 4 \times 4$$

$$z = 5 \times 5$$

- 37) Which is more:

$$\left(\frac{1}{2}\right)^2, \left(\frac{2}{3}\right)^2, \left(\frac{3}{4}\right)^2, \frac{1}{2}, \frac{2}{3}, \text{ or } \frac{3}{4}?$$

- 38) A pair of shoes sells for \$75 plus 7% sales tax. What is the final cost?

$$39) 2\frac{3}{4} + 3\frac{5}{8} + 4\frac{1}{2} + 5\frac{1}{8} = ?$$

$$40) 8 \div (4 \div 2) + (8 \div 4) \div 2 = ?$$

Answers:

- 1.
2. 720
3. 70
4. 13
5. 50
6. 89
7. 11,112
8. 6
9. 23
10. 13
11. 500
12. 4
13. the square
14. 42
15. 8.5 hrs
16. 39 deg
17. 9
18. 190
19. 1
20. 33
21. \$35
22. 11 (or 11.000)
23.  $\frac{2}{3}$
24. 64%
25. 2
26. 13 in
27. 15
28. 7,050,007
29. 135
30. 1.4 in
31. 7.360 (or 7.36)
32. 187 sq in
33. \$9.90
34. 1100
35. 3200
36. x
37.  $\frac{3}{4}$
38. \$80.25
39. 16
40. 5