※ You will receive 1.5 points for each correct answer for problems 1 to 30.

1. Calculate the answer.

$$\begin{array}{r} 28 \\ \times\ \ 6 \\ \hline \end{array}$$

Ⓐ 168
Ⓑ 174
Ⓒ 178
Ⓓ 184
Ⓔ 188

2. Calculate the answer.

$$\begin{array}{r} 83 \\ \times\ \ 6 \\ \hline \end{array}$$

Ⓐ 478
Ⓑ 486
Ⓒ 488
Ⓓ 496
Ⓔ 498

3. Calculate the answer.

$$\begin{array}{r} 19 \\ \times\ 82 \\ \hline \end{array}$$

Ⓐ 1538
Ⓑ 1548
Ⓒ 1558
Ⓓ 1568
Ⓔ 1578

4. Calculate the answer.

$$\begin{array}{r} 95 \\ \times\ 27 \\ \hline \end{array}$$

Ⓐ 2535
Ⓑ 2545
Ⓒ 2555
Ⓓ 2565
Ⓔ 2575

5. Calculate the answer.

$$\begin{array}{r} 536 \\ \times\ \ 69 \\ \hline \end{array}$$

Ⓐ 36894
Ⓑ 36974
Ⓒ 36984
Ⓓ 36994
Ⓔ 37004

6. Calculate the answer.

$$\begin{array}{r} 627 \\ \times\ 437 \\ \hline \end{array}$$

Ⓐ 273899
Ⓑ 273999
Ⓒ 274109
Ⓓ 274899
Ⓔ 274999

7. Calculate the answer.

$7\overline{)52}$

Ⓐ 6 …… 2
Ⓑ 6 …… 3
Ⓒ 7 …… 1
Ⓓ 7 …… 2
Ⓔ 7 …… 3

8. Calculate the answer.

$2\overline{)29}$

Ⓐ 14 …… 0
Ⓑ 14 …… 1
Ⓒ 15 …… 0
Ⓓ 15 …… 1
Ⓔ 16 …… 1

9. Calculate the answer.

$3\overline{)37}$

Ⓐ 12 …… 1
Ⓑ 12 …… 2
Ⓒ 13 …… 1
Ⓓ 13 …… 2
Ⓔ 14 …… 1

10. Calculate the answer.

$3\overline{)41}$

Ⓐ 13 …… 1
Ⓑ 13 …… 2
Ⓒ 14 …… 1
Ⓓ 14 …… 2
Ⓔ 15 …… 1

11. Calculate the answer.

$4\overline{)58}$

Ⓐ 13 …… 2
Ⓑ 14 …… 0
Ⓒ 14 …… 2
Ⓓ 15 …… 0
Ⓔ 15 …… 2

12. Calculate the answer.

$5\overline{)68}$

Ⓐ 13 …… 2
Ⓑ 13 …… 3
Ⓒ 13 …… 4
Ⓓ 14 …… 2
Ⓔ 14 …… 3

13. Calculate the answer.

$4\overline{)74}$

Ⓐ 17 …… 0
Ⓑ 17 …… 2
Ⓒ 18 …… 0
Ⓓ 18 …… 2
Ⓔ 19 …… 0

14. Calculate the answer.

$7\overline{)85}$

Ⓐ 12 …… 1
Ⓑ 12 …… 3
Ⓒ 12 …… 5
Ⓓ 13 …… 1
Ⓔ 13 …… 5

15. Calculate the answer.

$8\overline{)95}$

Ⓐ 11 …… 3
Ⓑ 11 …… 5
Ⓒ 11 …… 7
Ⓓ 12 …… 3
Ⓔ 12 …… 5

16. Calculate the answer.

$3\overline{)71}$

Ⓐ 21 …… 2
Ⓑ 22 …… 1
Ⓒ 22 …… 2
Ⓓ 23 …… 1
Ⓔ 23 …… 2

17. Calculate the answer.

$4\overline{)82}$

Ⓐ 19 …… 2
Ⓑ 19 …… 3
Ⓒ 20 …… 2
Ⓓ 20 …… 3
Ⓔ 21 …… 2

18. Calculate the answer.

$3\overline{)436}$

Ⓐ 144 …… 0
Ⓑ 144 …… 1
Ⓒ 144 …… 2
Ⓓ 145 …… 0
Ⓔ 145 …… 1

19. Calculate the answer.

$7\overline{)872}$

Ⓐ 124 …… 3
Ⓑ 124 …… 4
Ⓒ 124 …… 5
Ⓓ 125 …… 3
Ⓔ 125 …… 4

20. Calculate the answer.

$8\overline{)6354}$

Ⓐ 793 …… 2
Ⓑ 793 …… 4
Ⓒ 793 …… 6
Ⓓ 794 …… 2
Ⓔ 794 …… 4

21. Calculate the answer.

$25\overline{)421}$

Ⓐ 16 …… 11
Ⓑ 16 …… 16
Ⓒ 16 …… 21
Ⓓ 17 …… 17
Ⓔ 17 …… 22

22. Calculate the answer.

$13\overline{)736}$

Ⓐ 56 …… 8
Ⓑ 56 …… 9
Ⓒ 57 …… 3
Ⓓ 57 …… 4
Ⓔ 58 …… 11

23. Calculate the answer.

$36\overline{)805}$

Ⓐ 21 …… 3
Ⓑ 21 …… 7
Ⓒ 22 …… 5
Ⓓ 22 …… 9
Ⓔ 22 …… 13

24. Calculate the answer.

$4 + 8 \times 4 - 72 \div 9$

Ⓐ 25
Ⓑ 26
Ⓒ 27
Ⓓ 28
Ⓔ 29

25. Calculate the answer.

$$87 - 13 \times 6 + 64 \div 8$$

Ⓐ 16
Ⓑ 17
Ⓒ 18
Ⓓ 19
Ⓔ 20

26. Calculate the answer.

$$72 \div (9 + (25 - 16) \times 3)$$

Ⓐ 1
Ⓑ 2
Ⓒ 3
Ⓓ 4
Ⓔ 5

27. Calculate the answer.

$$4\frac{11}{17} + 1\frac{9}{17}$$

Ⓐ $5\frac{1}{17}$
Ⓑ $5\frac{3}{17}$
Ⓒ $5\frac{5}{17}$
Ⓓ $6\frac{1}{17}$
Ⓔ $6\frac{3}{17}$

28. Calculate the answer.

$$8\frac{5}{13} - 3\frac{9}{13}$$

Ⓐ $4\frac{7}{13}$
Ⓑ $4\frac{9}{13}$
Ⓒ $4\frac{11}{13}$
Ⓓ $5\frac{7}{13}$
Ⓔ $5\frac{9}{13}$

29. Calculate the answer.

$$\begin{array}{r} 6.63 \\ +\ 1.6 \\ \hline \end{array}$$

Ⓐ 7.23
Ⓑ 7.33
Ⓒ 8.13
Ⓓ 8.23
Ⓔ 8.33

30. Calculate the answer.

$$\begin{array}{r} 8.3 \\ -\ 4.56 \\ \hline \end{array}$$

Ⓐ 3.56
Ⓑ 3.74
Ⓒ 3.86
Ⓓ 4.76
Ⓔ 4.84

※ You will receive 2.0 points for each correct answer for problems 31 to 40.

31. Nick is practicing high jump with Rachel. Nick jumped 112cm and Rachel jumped 17cm less than Nick. How high did Rachel jump?

_____ cm

32. There are 46 books in each row on a bookshelf of the library. If the bookshelf has 9 rows, how many books are there in total on the bookshelf?

_____ books

33. Pedro rode his bicycle 9km each day for 49 days. What was the total distance he rode his bicycle?

_____ km

34. There are 34 tomato boxes. If each box contains 22 tomatoes, how many tomatoes are there in total?

_____ tomatoes

35. Principal Peter Brown wants to make bags with 5 candies each and distribute them to the students. He wants to make a total of 183 bags. How many candies does Principal Peter Brown need in total?

_____ candies

36. There are 12 sweet potatoes in a bag. If a truck can carry 213 bags of sweet potatoes, how many sweet potatoes can the truck carry in total? (Write the last 3 digits number. For example, if the answer is 1234, then write 234.)

_____

37. If 7 shuttlecocks are packed in one box, how many boxes will be needed to pack 42 shuttlecocks?

_____ boxes

38. A 703m long steel bar needs to be cut into pieces of 19m each. How many pieces can we make?

_____ pieces

39. I am planning to read a 278-page book by reading 15 pages every day. How many days will it take me to finish the book?

_____ days

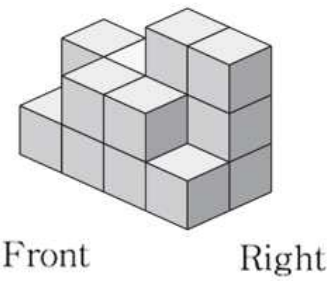
40. Emily and Frankie are reading. Emily read for an hour and 15 minutes, and Frankie read for 3720 seconds. How many minutes longer did Emily read than Frankie?

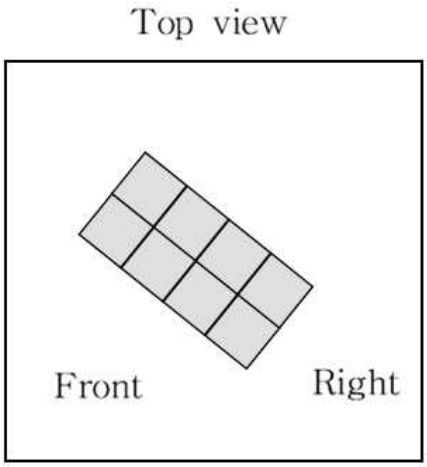
_____ minutes

41. Think about the numbers between 100 to 500. How many of them look the same when you read them from left to right and right to left? (For example, 151) [3.3 points]

Answer : _____ numbers

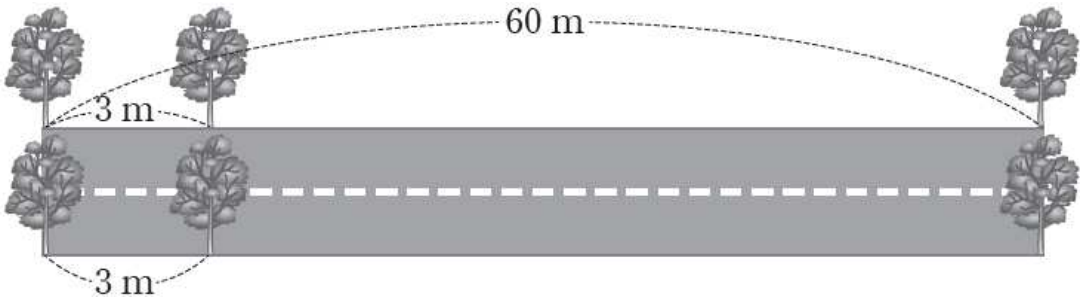
42. Look at the set of blocks below and calculate the number of blocks used. [3.3 points]





Answer : _____ blocks

43. We want to plant trees on both sides of a road that is 60m long. We want to plant the trees 3m apart. How many trees do we need to plant on both sides of the road? [3.3 points]



Answer : _____ trees

44. Find two numbers that have a sum of 17 and a product of 60. What is the difference between the two numbers? [4.3 points]

$$\square + \triangle = 17$$
$$\square \times \triangle = 60$$

Answer : _____

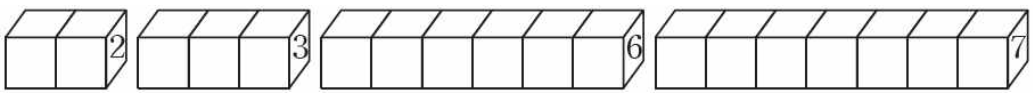
45. The letters 'a', 'b', and 'c' below represent unknown numbers. Each row will add up to the number on the right, and each column will add up to the number at the bottom. What is the value of ★?

[4.3 points]

a	a	b	22
a	b	b	20
c	c	c	33
27	★	23	

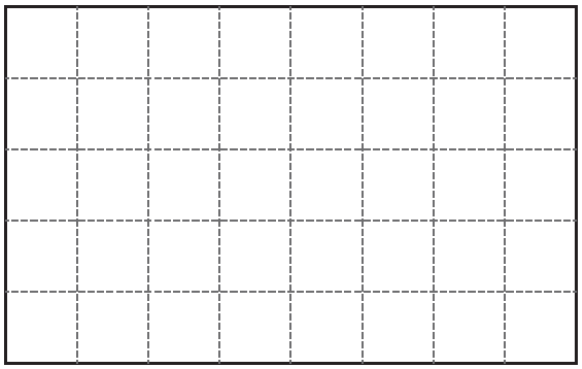
Answer : _____

46. Find the lengths of all the blocks between 8 to 18 that can't be made using the four blocks shown below. Once you have found them, add their lengths together. [4.3 points]



Answer : _____

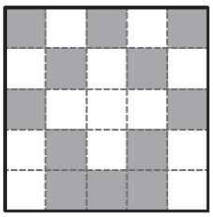
47. What is the most number of pieces you can get when you cut the board on the left into smaller pieces as shown on the right? [3.3 points]

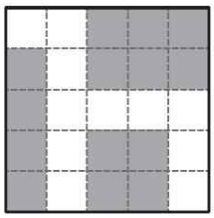


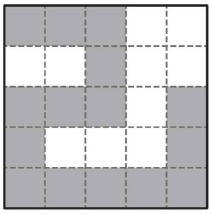
Answer : _____

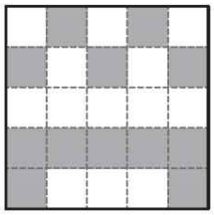
48. Which figure has the same shaded area as the example? [2.3 points]

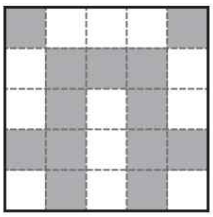
[Example]



Ⓐ 

Ⓑ 

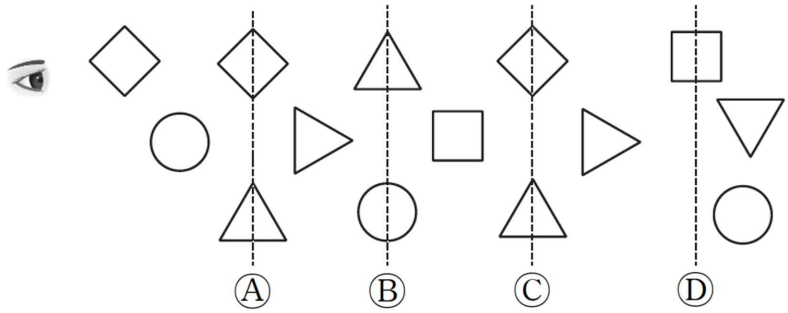
Ⓒ 

Ⓓ 

Answer : _____

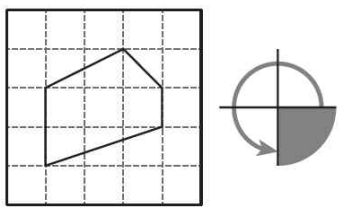
49. Where should you place a mirror to make the number of triangles and squares appear equal?

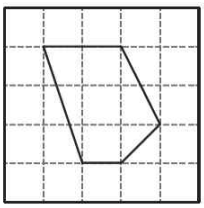
[3.3 points]

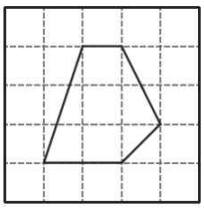


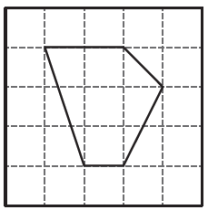
Answer : _____

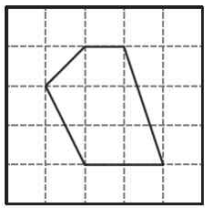
50. If we turn the given figure in the direction of the arrow, which figure will we get? [3.3 points]



Ⓐ 

Ⓑ 

Ⓒ 

Ⓓ 

Answer : _____