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

1. Calculate the answer.

$$\begin{array}{r} 64 \\ \times\ 48 \\ \hline \end{array}$$

Ⓐ 2962
Ⓑ 2984
Ⓒ 3032
Ⓓ 3072
Ⓔ 3114

2. Calculate the answer.

$$\begin{array}{r} 276 \\ \times\ 82 \\ \hline \end{array}$$

Ⓐ 21052
Ⓑ 22104
Ⓒ 22632
Ⓓ 22764
Ⓔ 23032

3. Calculate the answer.

$$3\overline{)53}$$

Ⓐ 15 …… 2
Ⓑ 16 …… 0
Ⓒ 16 …… 2
Ⓓ 17 …… 0
Ⓔ 17 …… 2

4. Calculate the answer.

$$4\overline{)79}$$

Ⓐ 18 …… 2
Ⓑ 18 …… 3
Ⓒ 19 …… 1
Ⓓ 19 …… 2
Ⓔ 19 …… 3

5. Calculate the answer.

$7\overline{)93}$

Ⓐ 13 …… 2
Ⓑ 13 …… 4
Ⓒ 13 …… 5
Ⓓ 14 …… 2
Ⓔ 14 …… 3

6. Calculate the answer.

$4\overline{)98}$

Ⓐ 24 …… 1
Ⓑ 24 …… 2
Ⓒ 24 …… 3
Ⓓ 25 …… 1
Ⓔ 25 …… 2

7. Calculate the answer.

$8\overline{)541}$

Ⓐ 67 …… 5
Ⓑ 67 …… 7
Ⓒ 68 …… 3
Ⓓ 68 …… 5
Ⓔ 68 …… 7

8. Calculate the answer.

$3\overline{)473}$

Ⓐ 157 …… 0
Ⓑ 157 …… 2
Ⓒ 158 …… 0
Ⓓ 158 …… 2
Ⓔ 159 …… 0

9. Calculate the answer.

$6\overline{)748}$

Ⓐ 122 …… 2
Ⓑ 123 …… 4
Ⓒ 124 …… 4
Ⓓ 125 …… 2
Ⓔ 126 …… 0

10. Calculate the answer.

$7\overline{)4874}$

Ⓐ 690 …… 2
Ⓑ 692 …… 4
Ⓒ 694 …… 6
Ⓓ 696 …… 2
Ⓔ 698 …… 4

11. Calculate the answer.

$26\overline{)160}$

Ⓐ 4 …… 10
Ⓑ 5 …… 16
Ⓒ 6 …… 4
Ⓓ 7 …… 12
Ⓔ 8 …… 8

12. Calculate the answer.

$17\overline{)385}$

Ⓐ 21 …… 13
Ⓑ 22 …… 11
Ⓒ 23 …… 9
Ⓓ 24 …… 7
Ⓔ 25 …… 5

13. Calculate the answer.

$46\overline{)894}$

Ⓐ 18 …… 8
Ⓑ 18 …… 20
Ⓒ 19 …… 20
Ⓓ 19 …… 32
Ⓔ 19 …… 44

14. Calculate the answer.

$53\overline{)683}$

Ⓐ 11 …… 23
Ⓑ 11 …… 39
Ⓒ 12 …… 23
Ⓓ 12 …… 47
Ⓔ 13 …… 17

15. Calculate the answer.

$76\overline{)842}$

Ⓐ 11 …… 6
Ⓑ 11 …… 28
Ⓒ 11 …… 52
Ⓓ 12 …… 8
Ⓔ 12 …… 42

16. Calculate the answer.

$29\overline{)7238}$

Ⓐ 246 …… 7
Ⓑ 247 …… 13
Ⓒ 248 …… 9
Ⓓ 249 …… 17
Ⓔ 250 …… 21

17. Calculate the answer.

$56\overline{)7\ 9\ 3\ 3}$

Ⓐ 139 …… 29
Ⓑ 140 …… 31
Ⓒ 140 …… 33
Ⓓ 141 …… 35
Ⓔ 141 …… 37

18. Calculate the answer.

$83\overline{)9\ 1\ 0\ 8}$

Ⓐ 108 …… 76
Ⓑ 109 …… 61
Ⓒ 110 …… 37
Ⓓ 111 …… 42
Ⓔ 112 …… 52

19. Calculate the answer.

$32\overline{)2\ 7\ 9\ 5\ 5}$

Ⓐ 873 …… 19
Ⓑ 874 …… 21
Ⓒ 875 …… 15
Ⓓ 876 …… 13
Ⓔ 877 …… 11

20. Calculate the answer.

$((58+8)\div 6-4)\times 4$

Ⓐ 12
Ⓑ 16
Ⓒ 20
Ⓓ 24
Ⓔ 28

21. Calculate the answer.

$13+48\div(14-6)\times 3$

Ⓐ 29
Ⓑ 30
Ⓒ 31
Ⓓ 32
Ⓔ 33

22. Calculate the answer.

$$42 - (46 + 29) \div (3 \times (13 - 8))$$

Ⓐ 37
Ⓑ 38
Ⓒ 39
Ⓓ 40
Ⓔ 41

23. Calculate the answer.

$$(70-25) \div 9 + (31 - (5+8) - 9) \times 4$$

Ⓐ 38
Ⓑ 39
Ⓒ 40
Ⓓ 41
Ⓔ 42

24. Calculate the answer.

$$3\frac{6}{7} + \left(6 - 2\frac{1}{7}\right)$$

Ⓐ $7\frac{2}{7}$
Ⓑ $7\frac{5}{7}$
Ⓒ $8\frac{1}{7}$
Ⓓ $8\frac{4}{7}$
Ⓔ $9\frac{3}{7}$

25. Calculate the answer.

$$7\frac{5}{9} - \left(4\frac{5}{9} - 1\frac{7}{9}\right)$$

Ⓐ $2\frac{2}{9}$
Ⓑ $3\frac{1}{9}$
Ⓒ $3\frac{4}{9}$
Ⓓ $4\frac{5}{9}$
Ⓔ $4\frac{7}{9}$

26. Calculate the answer.

$$7\frac{3}{13} - 4\frac{10}{13} + 3\frac{8}{13}$$

Ⓐ $6\frac{1}{13}$
Ⓑ $6\frac{7}{13}$
Ⓒ $6\frac{11}{13}$
Ⓓ $7\frac{1}{13}$
Ⓔ $7\frac{7}{13}$

27. Calculate the answer.

$$\begin{array}{r} 7.388 \\ +\ 1.63 \\ \hline \end{array}$$

Ⓐ 8.018
Ⓑ 8.128
Ⓒ 8.218
Ⓓ 9.018
Ⓔ 9.128

28. Calculate the answer.

$$\begin{array}{r} 7.04 \\ -\ 4.362 \\ \hline \end{array}$$

Ⓐ 2.348
Ⓑ 2.588
Ⓒ 2.678
Ⓓ 3.248
Ⓔ 3.308

29. Solve the fraction into its simplest form.

$$\frac{60}{96}$$

Ⓐ $\frac{2}{3}$
Ⓑ $\frac{3}{5}$
Ⓒ $\frac{4}{7}$
Ⓓ $\frac{5}{8}$
Ⓔ $\frac{5}{9}$

30. Solve the fraction into its simplest form.

$$\frac{78}{130}$$

Ⓐ $\frac{1}{3}$
Ⓑ $\frac{3}{5}$
Ⓒ $\frac{4}{7}$
Ⓓ $\frac{7}{10}$
Ⓔ $\frac{6}{13}$

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

31. There are 24 stairs on each floor of a building. How many stairs are there up to 13 floors of this building?

_____ stairs

32. Four people, Aurora, Blake, Camila, and Dylan, are trying to buy bikes that are the same price. If the total price of four bikes is $764, how much money should each person pay?

$ _____

33. Twelve people want to share 276 pieces of chocolate equally. How many pieces of chocolate will each person get?

_____ pieces of chocolate

34. Eight dozen pencils need to be equally divided among 16 people. How many pencils will each person get?

_____ pencils

35. Grace has 798kg of hay to feed her cows. She wants to give the same amount of hay every day for three weeks. How many kilograms of hay should she give each day?

_____ kg

36. Matthew has 6L of juice that he wants to put equally in 75 bottles. How many mL of juice should he put in each bottle?

_____ mL

37. Whitney packed 582 tangerines in boxes containing 38 tangerines each. How many tangerines are left after packing?

_____ tangerines

38. There is a rectangular field. The width of this field is 17m and the perimeter of the field is 76m. What is the area of the field?

_____ m^2

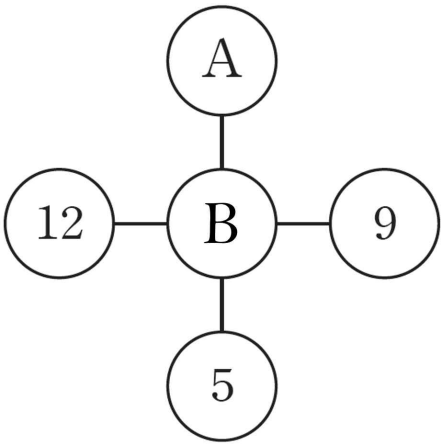
39. Justin ate for $\frac{6}{7}$ hours from 1p.m., studied for $2\frac{3}{7}$ hours, and exercised for $1\frac{5}{7}$ hours. What time is it now?

_____ p.m.

40. Luis and Morgan threw a discus. Luis threw the discus 42.15m, and Morgan threw 6.38m less than Luis. How many meters did Morgan throw the discus? Write the two digits of the decimal part as the answer.

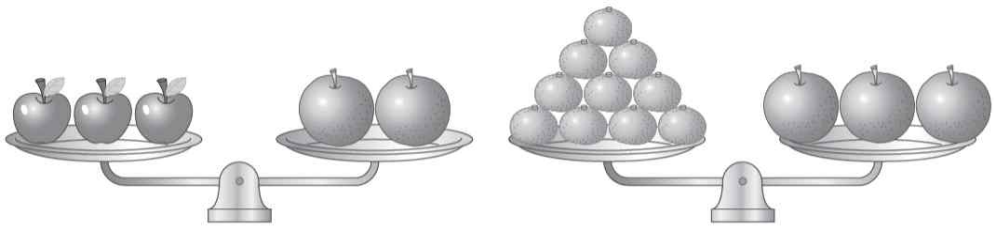
_____

41. When the sum of each line is equal to 32, find the correct numbers that will go into A and B. What is the value of A-B? [2.3 points]



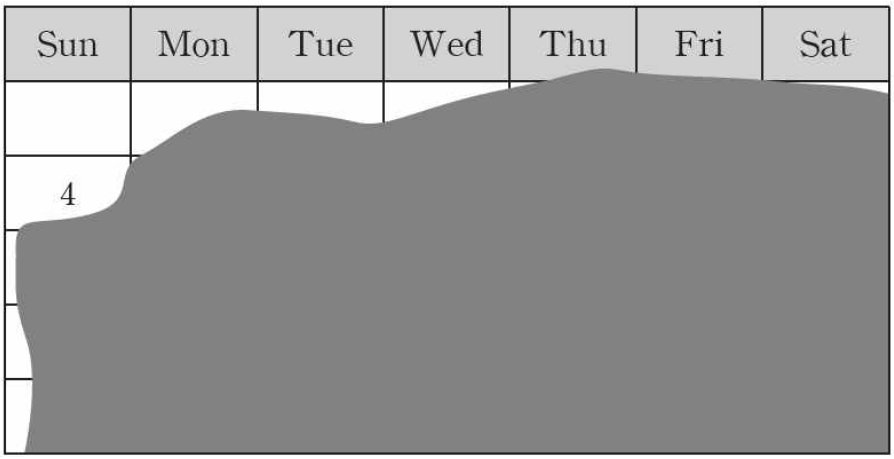
Answer : _____

42. Three apples have the same weight as 2 pears, and 10 tangerines have the same weight as 3 pears. How many tangerines would weigh the same as 18 apples? [3.3 points]



Answer : _____ tangerines

43. Part of the calendar is covered with ink. What is the date of the last Wednesday of the month? [3.3 points]



Answer : _____

44. If the numbers in each row are related in a certain way, 'Yes' is written as the Decision. If the numbers in each row are not related in that way, 'No' is written as the Decision. What is the missing number in the blank? [3.3 points]

A	B	C	Decision
3	1	5	Yes
4	3	5	Yes
5	2	5	No
8	8	8	Yes
10	6	□	Yes

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 ★?

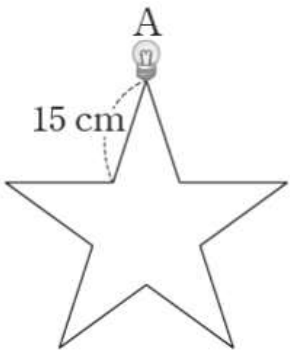
[3.3 points]

a	a	b	c	13
a	a	a	c	14
b	b	b	c	11
b	a	c	b	12
10	11	12	★	

Answer : _____

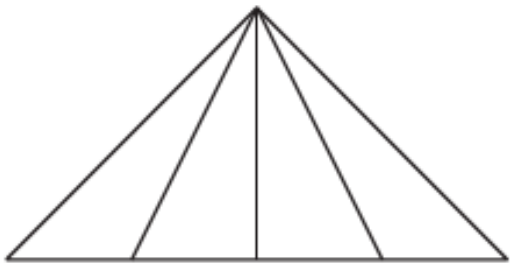
46. Light bulbs are to be placed around a star-shaped ornament with each side equal to 15cm. The light bulbs are to be placed 3cm apart. Starting at A, how many light bulbs will be needed?

[4.3 points]



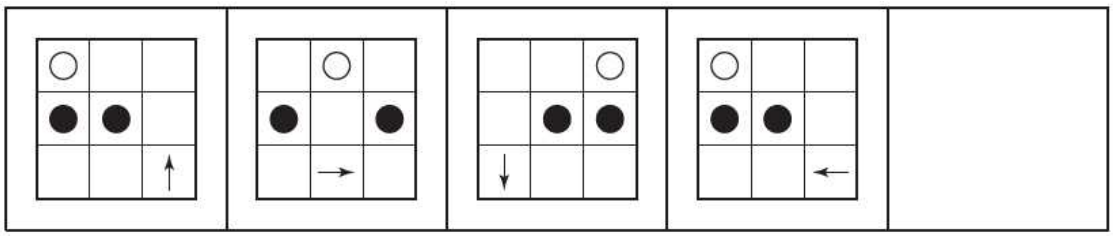
Answer : _____ light bulbs

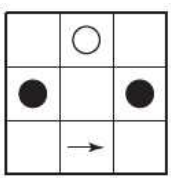
47. What is the total number of triangles you can find in the figure below? [4.3 points]

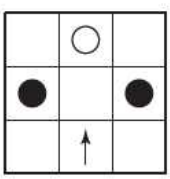


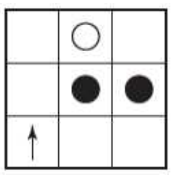
Answer : _____

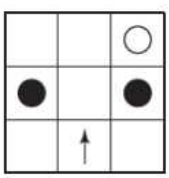
48. Look at the pattern of the figures below. Which figure belongs in the fifth box? [2.3 points]



Ⓐ 

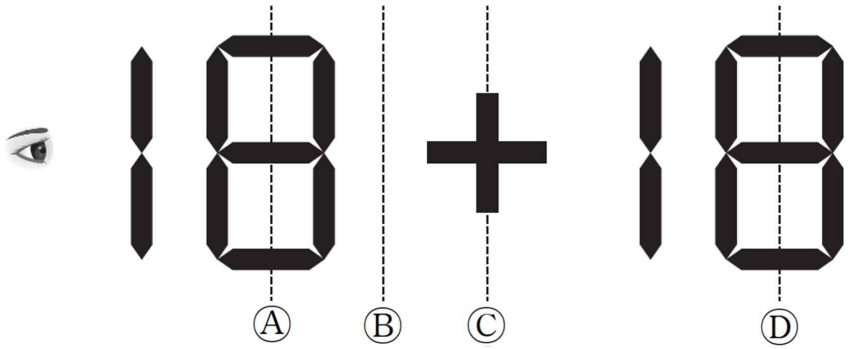
Ⓑ 

Ⓒ 

Ⓓ 

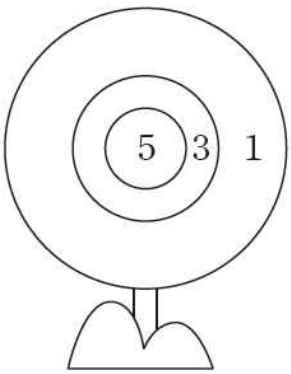
Answer : _____

49. Where should you place the mirror to get the largest calculated number, not exceeding 1000. [4.3 points]



Answer : _____

50. Gloria shot three arrows and they all hit the target below. How many different total scores could she have? [4.3 points]



Ⓐ 5 Ⓑ 6 Ⓒ 7 Ⓓ 8

Answer : _____