FSP MATHEMATICS CONTEST
QUESTION BOOKLET
2021

GRADE 3 & 4

TIME ALLOWED: 75 Minutes

MAXIMUM MARKS: 75

INSTRUCTIONS

1) DON'T START ATTEMPTING THE PAPER UNTIL INSTRUCTED BY THE INVIGILATOR.

2) INSTRUCTIONS FROM THE EXAMINATION INVIGILATOR MUST BE CARRIED OUT PROMPTLY.

3) CAREFULLY RECHECK YOUR NAME, FATHER NAME, SCHOOL NAME, ADDRESS ETC AT THE BUBBLE SHEET / ANSWER SHEET.

4) RECORD ALL ANSWERS ON THE BUBBLE SHEET ONLY. SELECT BEST ANSWER FROM THE FOUR GIVEN OPTIONS AND MARK ONLY ONE OPTION IN EACH QUESTION.

5) USE BLUE / BLACK INK TO FILL UP THE CIRCLES FOR YOUR ANSWERS ON THE BUBBLE SHEET. USE OF LEAD PENCIL IS NOT ALLOWED.

6) USE OF ANY HELPING MATERIAL INCLUDING CELL PHONES AND ELECTRONIC DEVICES IS STRICTLY PROHIBITED.

7) EVERY CORRECT ANSWER EARNS THREE POINTS. THERE WOULD BE NEGATIVE MARKING. ONE POINT WOULD BE DEDUCTED FOR EVERY INCORRECT ANSWER.

8) CANDIDATES MAY NOT LEAVE THE EXAMINATION ROOM UNESCORTED FOR ANY REASON, AND THIS INCLUDES USING THE WASHROOM.

9) NO MATERIALS OR ELECTRONIC DEVICES SHALL BE BROUGHT IN TO THE ROOM.

10) THERE ARE FIVE CATEGORIES OF THE CONTEST AS UNDER:

A) VIBRANT YOUNGSTERS (GRADE 1 & 2)

B) VIBRANT YOUNGSTERS (GRADE 3 & 4)

C) VIBRANT YOUNGSTERS (GRADE 5 & 6)

D) VIBRANT YOUNGSTERS (GRADE 7 & 8)

E) VIBRANT YOUNGSTERS (GRADE 9 & 10 / O-LEVELS)

11) ONLY REGISTERED STUDENTS CAN PARTICIPATE IN THE CONTEST.

12) NO CANDIDATE SHALL TAKE OUT OF THE HALL ANY ANSWER BOOK(S) OR PART OF AN ANSWER BOOK, WHETHER USED OR UNUSED, OR OTHER SUPPLIED MATERIAL.

13) IF A PARTICIPANT DOES NOT UNDERSTAND A WORD OR PHRASE ON THE EXAM PAPER, NEITHER EXAMINER NOR INVIGILATOR IS PERMITTED TO ANSWER.

14) FOR INFORMATION ABOUT UPCOMING CONTESTS OR PROVIDING VALUABLE FEEDBACK, PLEASE VISIT WWW.FSPCOMPETITIONS.ORG

15) ANY ACADEMIC MISCONDUCT OR MALPRACTICE MUST BE REPORTED TO FSP VIBRANT YOUNGSTERS AT INFO@FSPCOMPETITIONS.ORG

Q.1) If ★x★x = 125, then ★x8 = ?

A) 32 B) 40 C) 64 D) 80

Q.2) What is the perimeter of the rectangle?

6 cm

5 cm   5 cm

6 cm
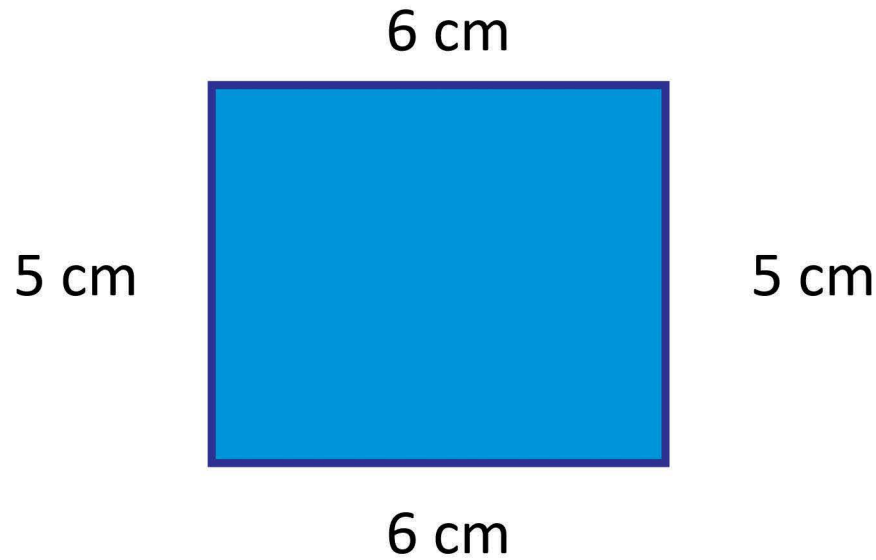
A) 11 cm B) 22 cm C) 30 cm D) 33 cm

Q.3) A farmer's irrigation system has plastic & metal pipes, He built it with a total of 811 pipes. If he used 142 plastic pipes, about how many metal pipes did he use? Choose he better estimate.
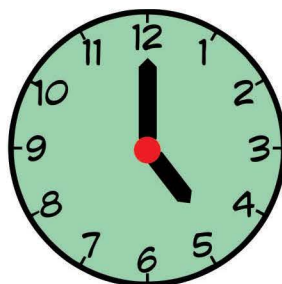
A) 669 B) 953 C) 996 D) None of these

Q.4) When a clock shows exactly 5 o'clock, how large is the angle formed by the hour & minute hands?

A) 150° B) 120° C) 100° D) 180°

(1)

Q.5) Suppose there is a bottle tat contains 6 liters of Canola oil. If $4\frac{1}{8}$ liters were uses after one week & $3\frac{3}{8}$ liters were refilled, how much Canola oil does this bottle has now?

A $6\frac{1}{4}$ liters   **B** $5\frac{1}{4}$ liters   **C** $5\frac{1}{8}$ liters   **D** $4\frac{3}{4}$ liters

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Q.6) The 4th Grade of school has 8 classes & 24 students in each class. Its 3rd Grade has 12 classes with 30 students in each class. How many more students does 4th Grade have than 3rd Grade?

A 154   **B** 168   **C** 172   **D** 176

Q.7) How much money does Javeria need to buy a ceramic vase & 7 silver coat racks?

Crystal vase	**Rs. 56.00**
Silver Coat Rack	**Rs. 78.00**
Ceramic Vase	**Rs. 26.00**
Rug	**Rs. 43.00**

A 520   **B** 546   **C** 556   **D** 572

Q.8) Naila kept track of the trick-or-treaters who came to her door & found that 1/5 were dressed as ghosts & 1/5 were dressed as witches. What fraction of the trick-or-treaters were dressed as either ghosts or witches?

A 1/5   **B** 2/5   **C** 3/5   **D** 4/5

Q.9) The graph below shows the number of boats rented at a lake.
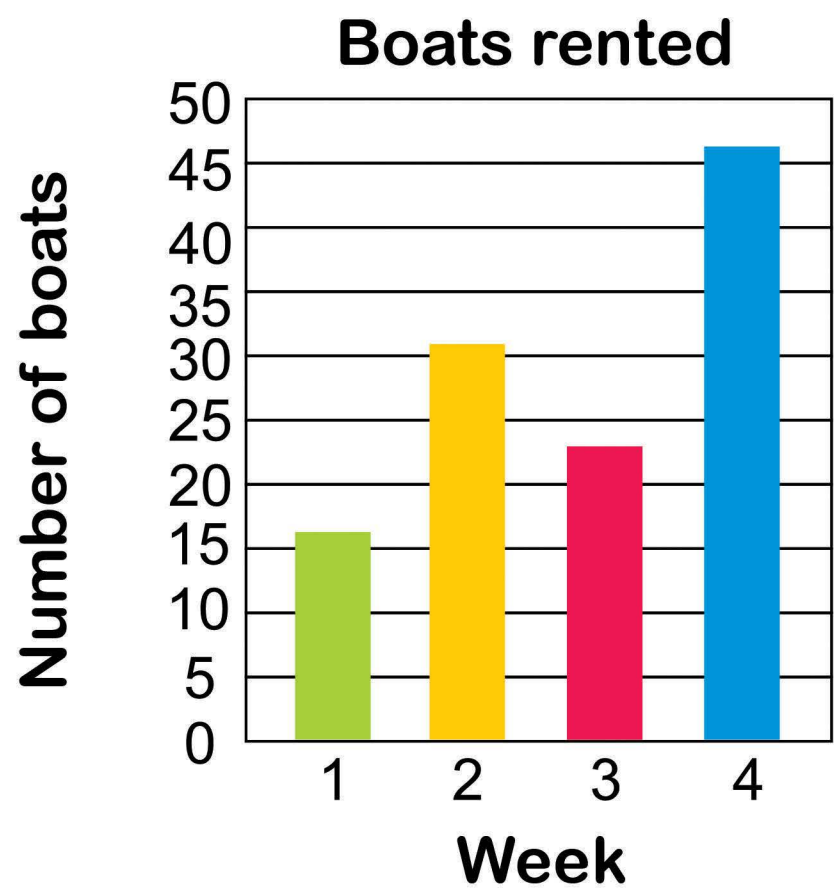
Boats rented

According to the graph, about how many boats were rented in Week 4 than in Week 1?
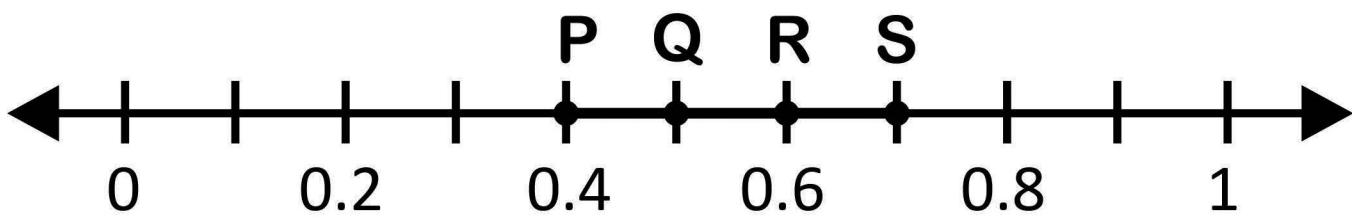
(A) 30   (B) 40   (C) 50   (D) 70

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Q.10) The points labeled on the number line below represent decimal numbers.

Which point represents a decimal greater than 0.45 but less than 0.55?
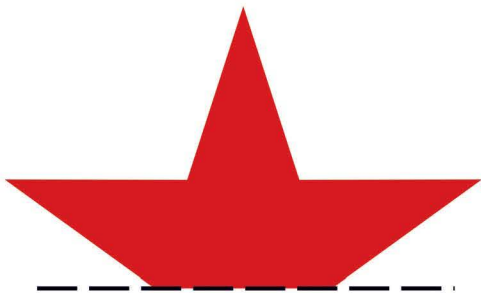
(A) Point P   (B) Point Q   (C) Point R   (D) Point S

_____

(3)

Q.11) The figures below follow a pattern.

A ▲ B ▼ C ⬠ D ⬡

_____

Q.12) Which of the following would complete the figure sp that it become five-pointed star?

A   C

B   D

_____

Q.13) Landry drew a flag with exactly one pair of perpendicular sides. Which of these could be the shape of the flag?

A Right triangle   B Acute triangle   C Rectangle   D Square

_____

Q.14) Quinlyn described a number using these clues.

- The value of the digit 7 is (7 x 10).
- The value of the digit 3 is (3 x 1,000).
- The value of the digit 1 is (1 x 100).

Which number could fit Quinlyn's description?

A) 3,175.02   B) 93,075.01   C) 3,651.70   D) 9,372.01

Q.15) There are 6 honeycomb cells around 1 cell.
There are 8 honeycomb cells around 2 cell.
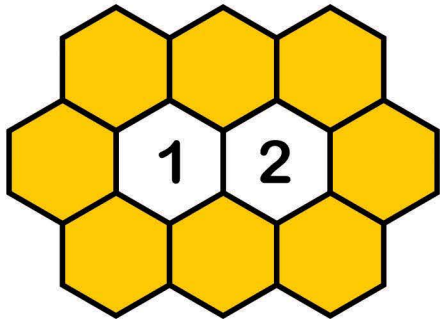
How many cells are around a row of 3 cells?
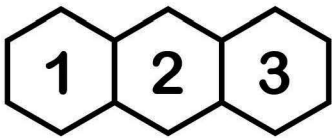
A) 09   B) 12   C) 11   D) 10

Q.16) Picture shows a plan of square garden. The distance between apple trees 5 meters. The distance between a tree & the fence around the garden is 5 meters.

Find the are of the garden.

A) 225 square meters   B) 440 square meters

C) 500 square meters   D) 400 square meters

5m

5m
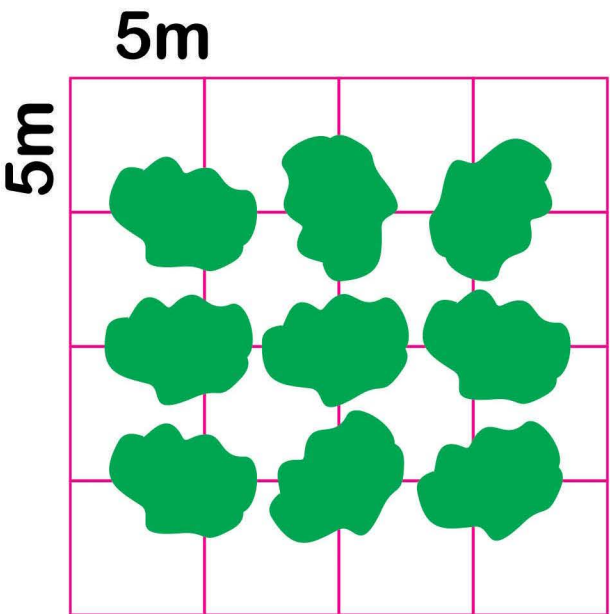
Q.17) Which shape appears most often in the figure?
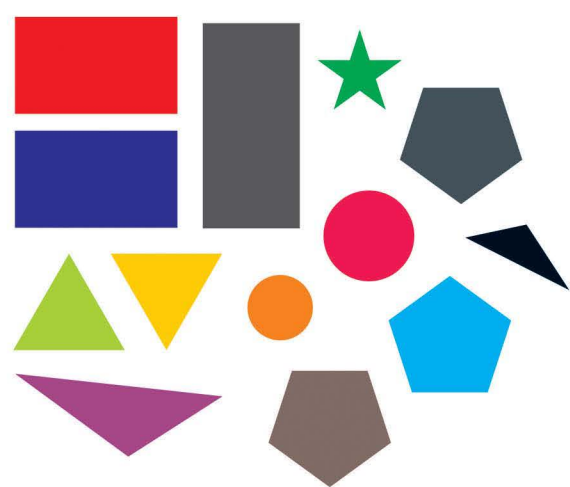
A) Pentagon   B) Rectangle   C) Circle   D) Triangle

_____

Q.18) Which of the shapes has the largest perimeter?
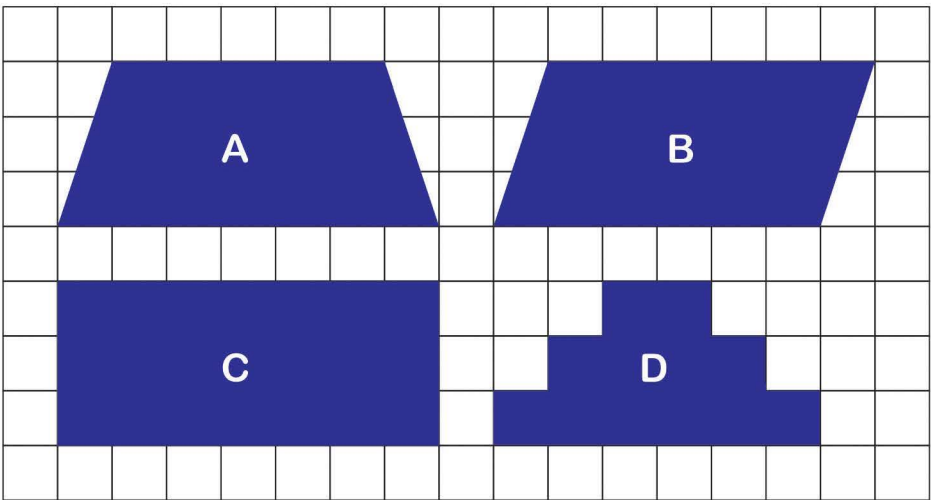
A) D   B) A   C) C   D) B

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Q.19) There are eight buckets: four of them are filled with water.

What is the smallest number of buckets that I can move to make the pattern: full bucket, empty bucket, full bucket, empty bucket, etc.?
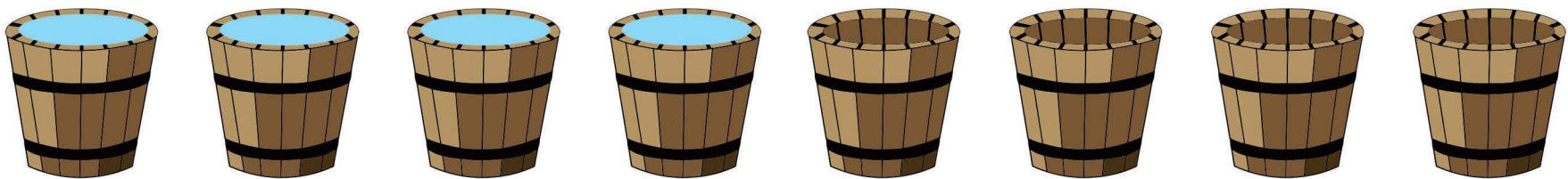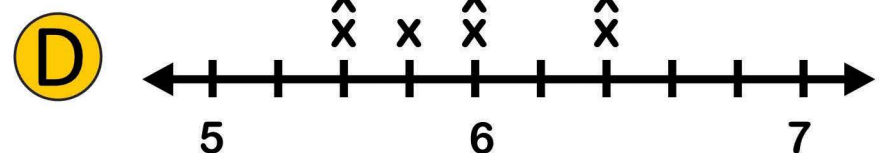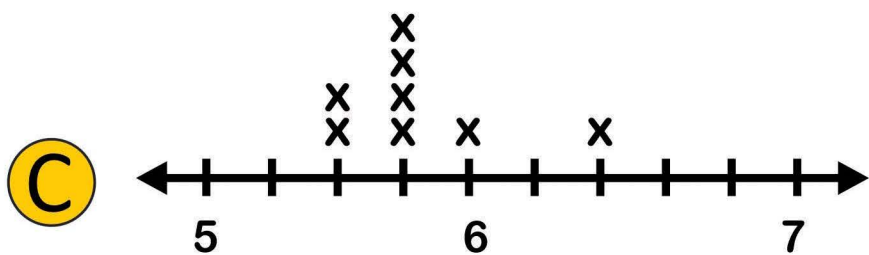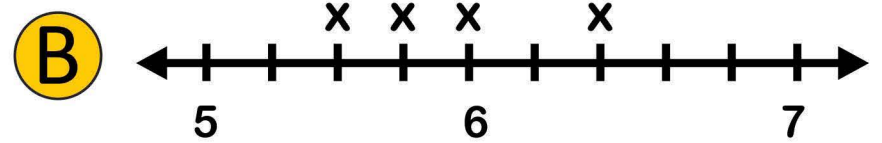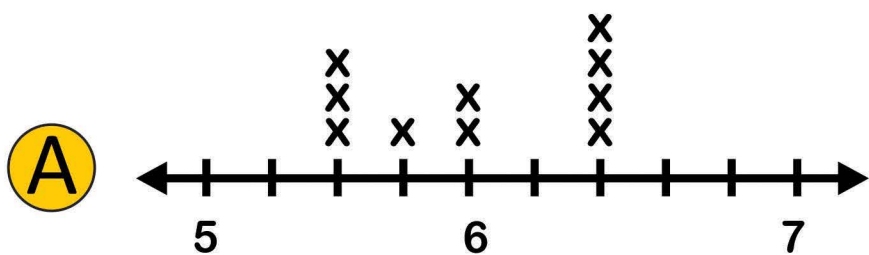
Q.20) Eric measures 10 leaves with a ruler. He records the lengths as shown.

Lenghts of Leaves (inches)

$$5\frac{1}{2}, \; 6\frac{1}{2}, \; 6\frac{1}{2} \quad 6, \; 5\frac{3}{4}, \; 5\frac{1}{2}, \; 6, \; 6, \; 5\frac{1}{2}, \; 6$$

Which line plot shows the lengths of the leaves recorded correctly?

A

B

C

D

Q.21) Mr. Ahmad is paintaing his house. The graph below shows how many hours he spent painting during 5 days.

Hours Painting House
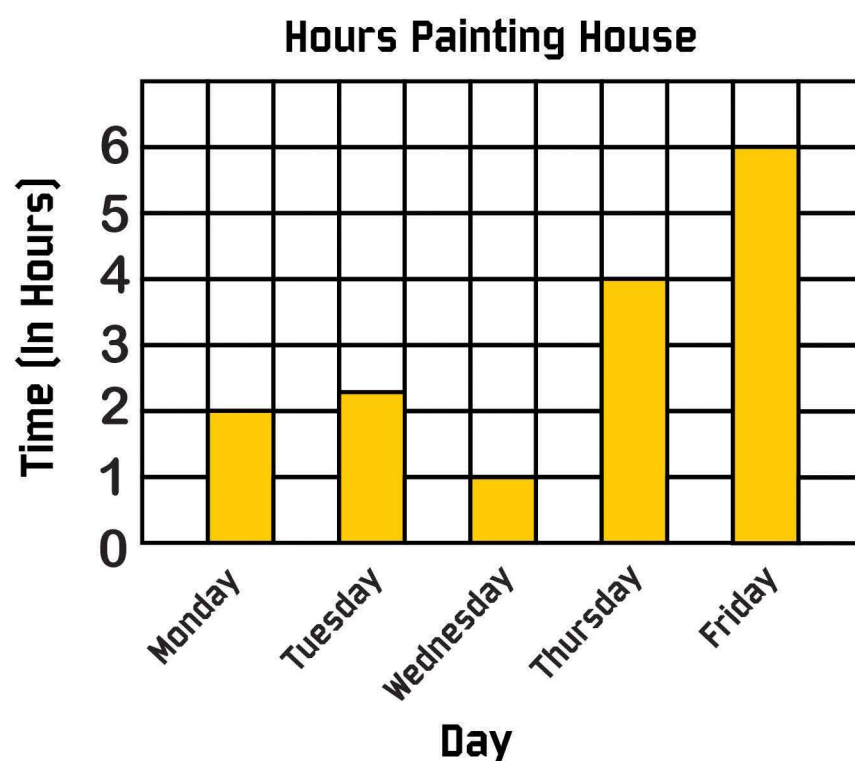
How many more hours did Mr. Ahmad spend painting his house on Friday than on Wednesday?

A. 4 B. 5 C. 6 D. 7

Q.22) Ms. Rehana's class & Mr. Ali's class are cometing in a school Read-a-Thon.

Books Read Each Week

Week	Ms. Rehana's Class	Mr. Ali's Class
1	10	8
2	9	10
3	13	12

According to the table, which statement is true?

A. In 3 weeks Mr. Ali's class read more books than Ms. Rehana's class.

B. In the first 2 weeks Mr. Ali's class read more books than Ms. Rehana's class.

C. Ms. Rehanas's class read fewer books during week 1 than Mr. Ali's read during week 1.

D. Ms. Rehana's class read the same number of books during week 1 as Mr. Ali's class read during week 2.

Q.23) What fraction of the figure below is shaded?
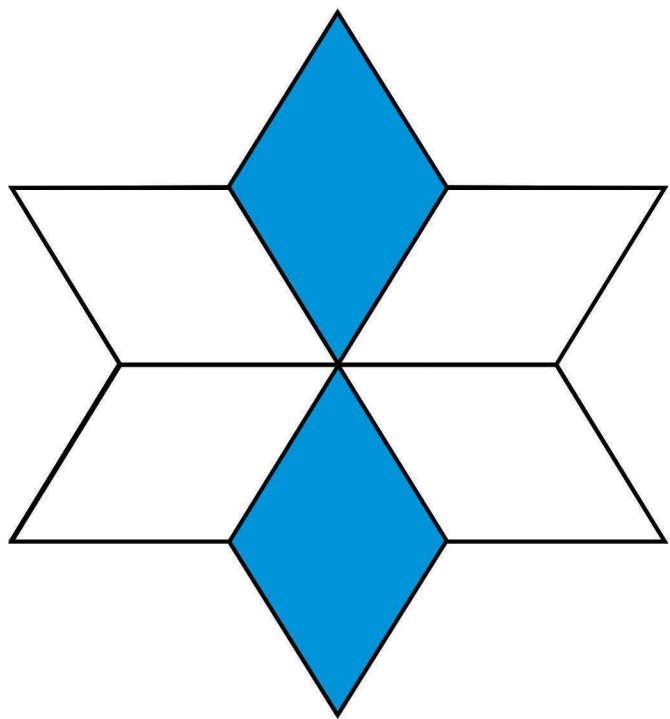
(A) $\dfrac{1}{4}$ (B) $\dfrac{2}{4}$ (C) $\dfrac{2}{6}$ (D) $\dfrac{4}{6}$

Q.24) As in figure below, the right scale has the chicken & the plate & the left scale has only the plate. How much does the chicken weight?

Just the Plate   Plate with Chicken
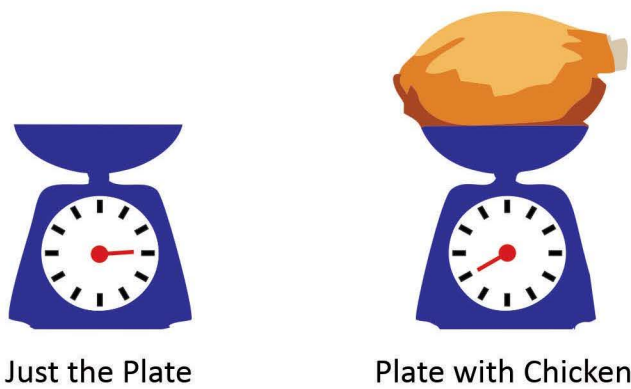
(A) 600 grams   (B) 0.5 grams   (C) 5.5 grams   (D) 700 grams

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THE END

Q. No.	Answer				Q. No.	Answer			
1	A	B	●	D	13	●	B	C	D
2	A	●	C	D	14	●	B	C	D
3	●	B	C	D	15	A	●	C	D
4	●	B	C	D	16	A	B	C	●
5	A	●	C	D	17	A	B	C	●
6	A	●	C	D	18	A	B	C	●
7	A	B	C	●	19	A	B	C	●
8	A	B	●	D	20	A	B	C	●
9	●	B	C	D	21	A	●	C	D
10	A	●	C	D	22	A	B	C	●
11	A	●	C	D	23	A	B	●	D
12	A	●	C	D	24	A	●	C	D

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