

**MATH ASSESSMENT (BASELINE – GRADES 6-7)**

Learning Lab RCT #0

Abdul Latif Jameel Poverty Action Lab (J-PAL) South Asia

**1. School ID:** \_\_\_\_\_**2. Student ID:** \_\_\_\_\_**3. Grade:**

a. Grade 6

b. Grade 7

**4. Section:**

a. A

b. B

**5. Date (dd/mm/yy):** \_\_\_\_/\_\_\_\_/\_\_\_\_

1.  $52 - 7 =$  \_\_\_\_\_

- a. 59
- b. 25
- c. 45
- d. 364

2.  $243 + 176 =$  \_\_\_\_\_

- a. 419
- b. 67
- c. 70
- d. 914

3.  $48 \times 5 =$  \_\_\_\_\_

- a. 200
- b. 240
- c. 420
- d. 500

4.  $15 \times 9 =$  \_\_\_\_\_

- a. 145
- b. 130
- c. 140
- d. 135

5.  $27 \div 3 =$  \_\_\_\_\_

- a. 9
- b. 3
- c. 24
- d. 30

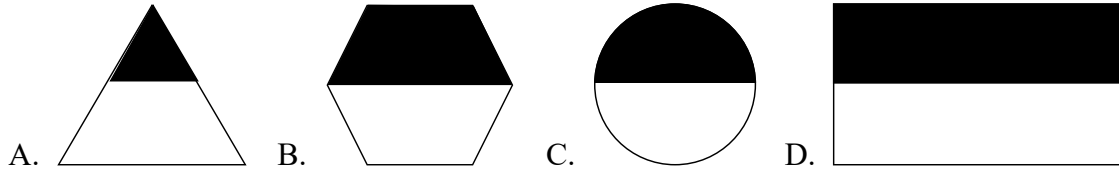
6.  $49 - 28 =$  \_\_\_\_\_

- a. 77
- b. 21
- c. 19
- d. 20

7.  $18.23 - 0.2 =$  \_\_\_\_\_

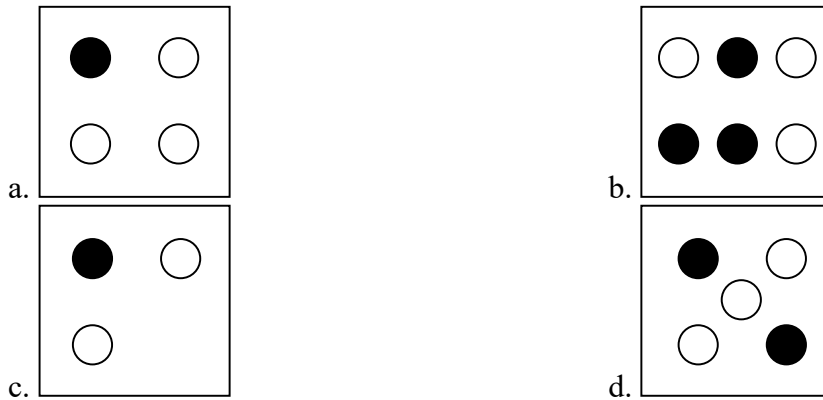
- e. 18.21
- f. 12.23
- g. 18.30
- h. 18.03

8. Look at the following figures. Which one is shaded less than half?

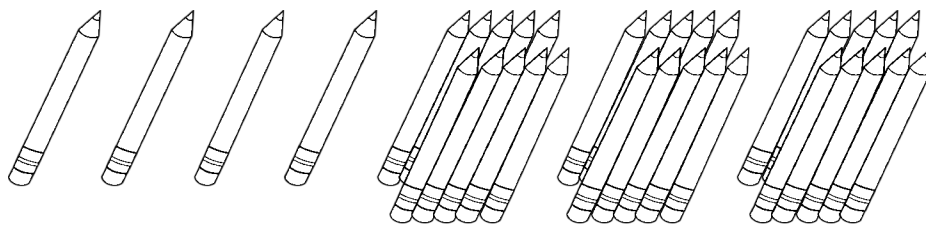


- a. A
- b. B
- c. C
- d. D

9. In which figure are one-half of the dots black?



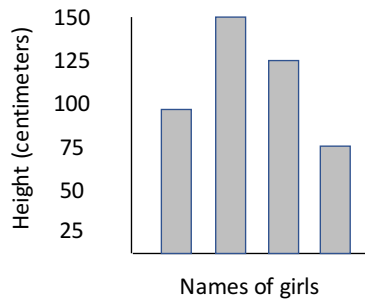
10. In the picture below, there are some loose pencils and there are some pencils in bundles. Each bundle has 10 pencils.



How many pencils are there in all the picture?

- a. 7
- b. 34
- c. 30
- d. 19

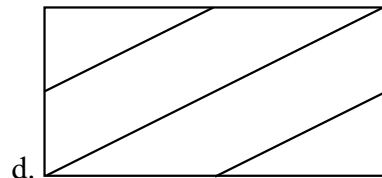
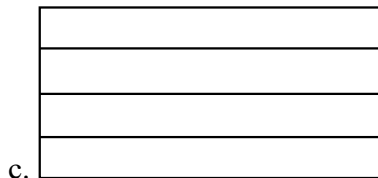
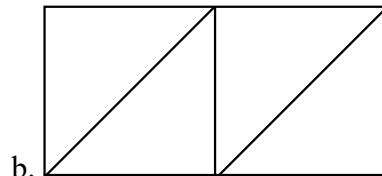
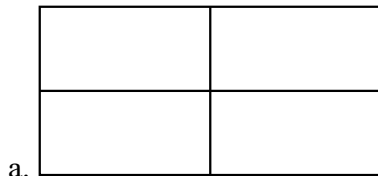
**11. The graph shows the heights of four girls:**



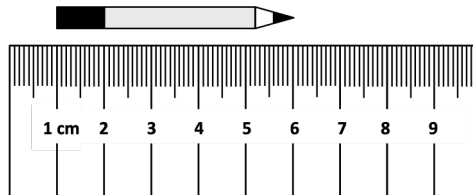
**The names are missing from the graph. Anuja is the tallest. Rashmi is the shortest. Roshni is taller than Urmi. How tall is Urmi?**

- a. 75 cm
- b. 100 cm
- c. 125 cm
- d. 150 cm

**12. Which rectangle is NOT divided into 4 equal parts?**



**13. The length of the pencil is \_\_\_\_\_.**



- a. 4 cm
- b. 5 cm
- c. 6 cm
- d. 7 cm

**14. What is the missing number in 16, 15, 14, \_\_\_, 12, 11, 10?**

- a. 15
- b. 17
- c. 12
- d. 13

**15. This chart shows temperature readings made at different times on four days.**

Temperatures					
	6 a.m.	9 a.m.	Noon	3 p.m.	8 p.m.
Monday	15°	17°	20°	21°	19°
Tuesday	15°	15°	15°	15°	9°
Wednesday	8°	10°	14°	14°	15°
Thursday	8°	11°	14°	14°	20°

**When was the highest temperature recorded?**

- a. Noon on Monday
- b. 3 p.m. on Monday
- c. Noon on Tuesday
- d. 3 p.m. on Wednesday

**16.  $64 \div \diamond = \diamond$ .**

**In this equation,  $\diamond$  stands for the same number. What does  $\diamond$  stand for?**

- a. 4
- b. 8
- c. 16
- d. 32

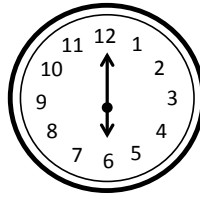
**17. Three boys went to a market. They spent 5 Rupees each. How much did the three boys spend in total?**

- a. 5
- b. 10
- c. 20
- d. 15

**18. What is 25% of 200?**

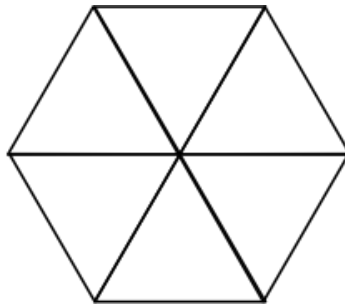
- a. 25
- b. 50
- c. 100
- d. 18.30

**19. What time is this clock showing?**



- a. Half past twelve
- b. Six o'clock
- c. Half past six
- d. Twelve o'clock

**20. The hexagon below is divided into six \_\_\_\_\_.**



- a. Triangles
- b. Squares
- c. Pentagons
- d. Rectangles

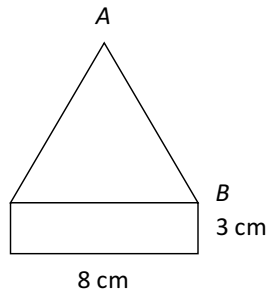
**21. Here is a calendar for the month of December.**

December						
S	M	T	W	T	F	S
			1	2	3	4
5	6	7	8	9	10	11
12	13	14	15	16	17	18
19	20	21	22	23	24	25
26	27	28	29	30	31	

**Santosh's birthday is on Thursday, December 2. He is going on a trip exactly 3 weeks later. On what day will he go on the trip?**

- a. December 16th
- b. December 21st
- c. December 23rd
- d. December 30th

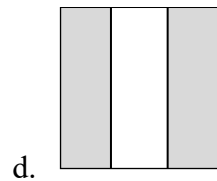
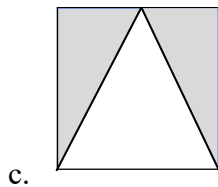
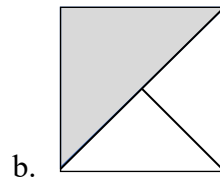
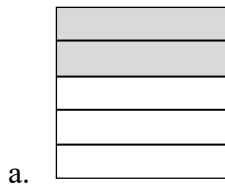
**22. The figure below is made from a rectangle and a triangle with three equal sides.**



**What is the length, in centimeters, of side  $AB$ ?**

- a. 8
- b. 9
- c. 10
- d. 11

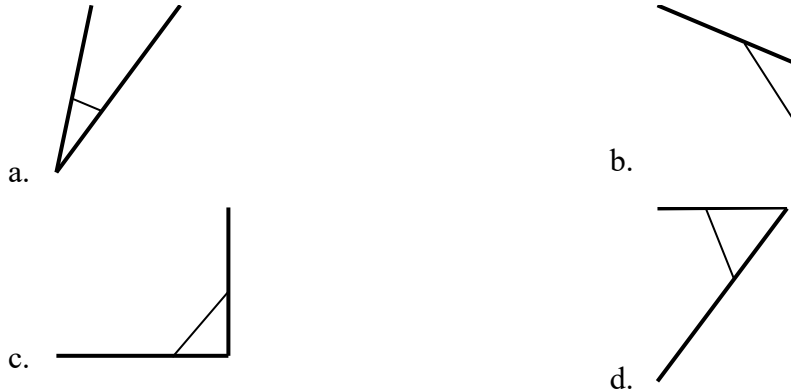
**23. Which shows  $\frac{2}{3}$  of the square shaded?**



**24. Which of the following is true?**

- a.  $69 = 6 + 9$
- b.  $69 = 6 + 90$
- c.  $69 = 60 + 9$
- d.  $69 = 60 + 90$

**25. Which angle has the greatest degree measure?**

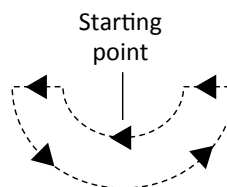


**26. What is the total bill amount?**

<b>Kamal Stationery</b> 24, Ghandi Road, Ahmedabad			
Goods	Price	Qty.	Amount
Rubber	2.00	5	10.00
Ruler	1.50	1	1.50
Pencil	3.00	1	3.00
Chalk box	15.00	1	15.00
Total Rs.			?
For, Kamal Stationery			

- a. Rs. 10.00
- b. Rs. 21.50
- c. Rs. 29.00
- d. Rs. 29.50

**27. An ant starts at a point on this shape, walks along the boundary and comes back to the starting point. It does not turn back at any time.**



**Which of the following is the same as the distance walked by the ant?**

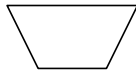
- a. the length of the ant
- b. the perimeter of the shape
- c. the area enclosed by the shape
- d. the length of the horizontal lines in the shape



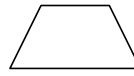
**28. Which of these shapes is/are a trapezium(s)?**



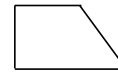
Shape 1



Shape 2



Shape 3



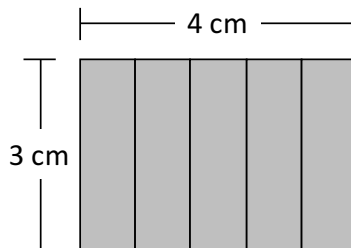
Shape 4

- a. shape 3 only
- b. shape 1 and 3 only
- c. shapes 1, 2 and 3 only
- d. shapes 1, 2, 3, and 4

**29. All of the pupils in the class cut out paper shapes. The teacher picked one out and said “This shape is a triangle”. Which of these statements must be true?**

- a. The shape has three sides
- b. The shape has a right angle
- c. The shape has equal sides
- d. The shape has equal angles

**30. Raghav is painting one side of a fence. The fence is 4 meters long and 3 meters high.**



**What is the area that Raghav has to paint?**

- a. 4 square meters
- b. 7 square meters
- c. 12 square meters
- d. 14 square meters

**31. It takes Diksha 4 minutes to wash a window. She wants to know how many minutes it will take her to wash 8 windows at this rate. She should:**

- a. multiply  $4 \times 8$
- b. divide 8 by 4
- c. subtract 4 from 8
- d. add 8 and 4

**32. Arrange these fractions in ascending order (from smallest to largest).**

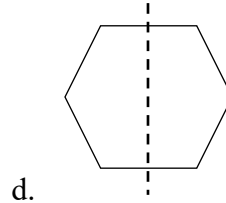
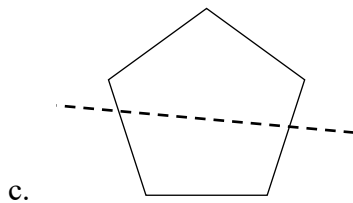
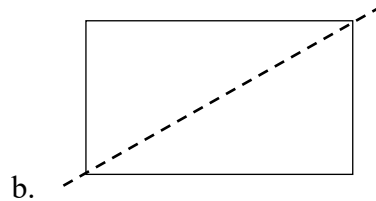
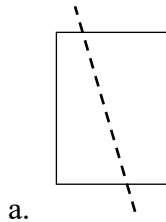
$$\frac{3}{8}, \frac{5}{16}, \frac{5}{8}$$

- a.  $\frac{3}{8}, \frac{5}{8}, \frac{5}{16}$
- b.  $\frac{5}{16}, \frac{5}{8}, \frac{3}{8}$
- c.  $\frac{5}{16}, \frac{3}{8}, \frac{5}{8}$
- d.  $\frac{3}{8}, \frac{5}{16}, \frac{5}{8}$

**33.  $\frac{9}{8} \times \frac{2}{3} =$**

- a.  $\frac{3}{4}$
- b.  $\frac{18}{21}$
- c.  $\frac{24}{19}$
- d.  $\frac{27}{16}$

**34. In which of the following figures is the dotted line a line of symmetry?**



**35. The scale on a map indicates that 1 centimeter on the map represents 4 kilometers on the land. The distance between two towns on the map is 8 centimeters. How many kilometers apart are the two towns?**

- a. 2
- b. 8
- c. 16
- d. 32