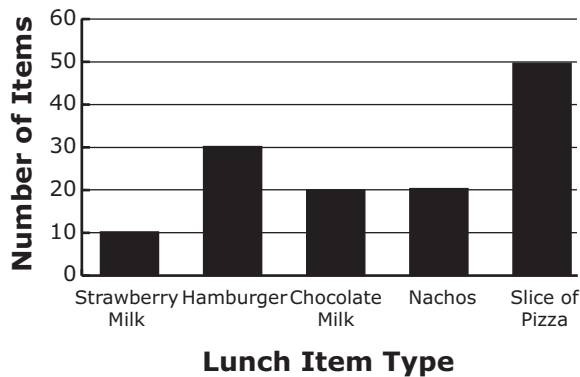


- 1 Write these numbers in increasing order.

$$2.9, \frac{-2}{5}, 3.6, \frac{10}{3}, -4.6$$

- 2 The graph shows the number of lunch items sold at a school cafeteria in one day.

Items Sold at a Cafeteria



At this rate, how many nachos will be sold in 5 days? _____

- 3 Solve for the value of p .

$$9p = 45$$

- 4 Of the choices below, what is the best estimate of the length of a badminton racquet?

- A 66 centimeters
B 66 kilometers
C 66 meters

- 5 Complete the sequence.

$$7, 21, 63, 189, \underline{\hspace{2cm}}$$

- 6 Write $<$, $>$, or $=$ in each blank.

$$\frac{5}{8} \underline{\hspace{1cm}} \frac{12}{20} \underline{\hspace{1cm}} \frac{4}{9}$$

- 7 Write the number that balances the equation.

$$28 + (7 + 6) = (28 + 7) + \underline{\hspace{2cm}}$$

- 8 Complete the sequence.

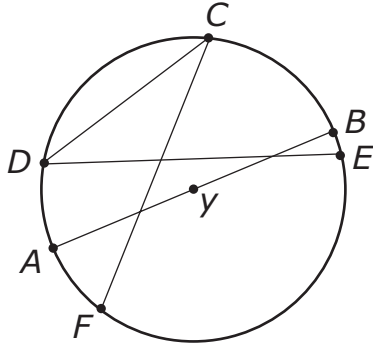
$$0.111, 0.333, 0.555, \underline{\hspace{2cm}}$$

- 9 Julia takes out a jelly bean at random from a bag containing 3 green jelly beans and 9 red jelly beans. What is the probability that Julia will take out a green jelly bean?

- 10 Which of these values is the least?

$$-14, 10, -22, \frac{6}{5}$$

- 11** Point Y is the center of the circle.



Which line segment shows the diameter of the circle?

- 12** Solve for the value of x .

$$9x + 7 = 61$$

- 13** Which of these values is the greatest?

$$\frac{8}{7}, -19, 8, \frac{7}{9}$$

- 14** Of the choices below, what is the best estimate of the speed of a car?

- A 155 millimeters per hour
 B 55 kilometers per hour
 C 55 meters per hour

- 15**

Day	Minutes for Manuel to Reach the Office
Monday	25
Tuesday	15
Wednesday	17
Thursday	21
Friday	23

On which day did Manuel reach the office in the shortest amount of time? _____

How many minutes more did Manuel take to reach the office on Monday than on Thursday? _____

- 16** Write the number that balances the equation.

$$(1 \bullet 8)3 = 1(8 \bullet \underline{\hspace{2cm}})$$

- 17** Solve for the value of x .

$$4x - 26 = 38$$

- 18** Write the greatest common factor of these numbers in the blank.

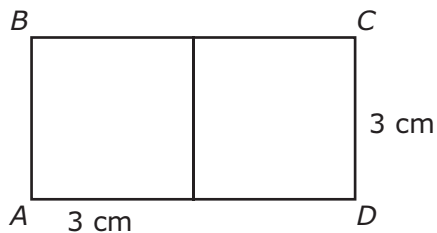
$$17, 13, 32$$

- 19** Amanda correctly answered 66% of the questions on a test. If the test had 50 questions, how many questions did Amanda answer incorrectly?

- 20** Simplify the expression.

$$21 + 9 \cdot 2 - 20 \div 2$$

- 21** Rectangle $ABCD$ is made up of two equal squares.



Note: $P = 2(l + w)$

Perimeter of rectangle $ABCD =$ _____ cm

- 22** The number of tulips in a nursery is 781. The number of lilies is 1384. Estimate (to the nearest hundreds place) the total number of both tulips and lilies in the nursery.

- 23** Round to the nearest tenths place.

$$66,654.19$$

- 24** Josh had \$5009 in his bank account. He deposited \$890 to his account. What is the estimated balance (to the nearest hundreds place) in his account now?

\$ _____

- 25** Complete the sequence.

$$\frac{4}{7}, \frac{8}{7}, \frac{12}{7}, \frac{16}{7}, \text{_____}$$

- 26** A museum is open 5 days a week. For one week, museum attendance per day was 335, 331, 244, 202, and 118. What was the mean number of people visiting the museum per day?

Mean = _____

- 27** Round to the nearest hundredths place.

$$978.265$$

- 28** Solve for the value of R .

$$R(8 + 8) = 19 + 77$$

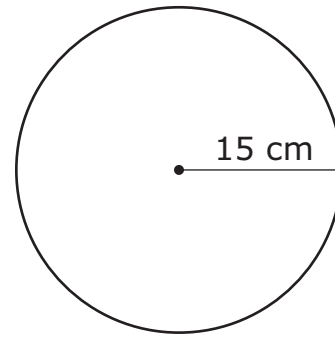
- 29** Last week, Alexis earned \$46 more than twice the amount she earned this week. She earned \$80 last week. How much did she earn this week?

\$ _____

- 30** Solve for the value of x .

$$4x + 5 = 2x + 33$$

- 31**



What is the circumference of the circle?

Note: $\pi = 3.14$

$$C = 2\pi r$$

_____ cm

Reminder: There is **no** partial credit when scoring. The answer must be correct **in its entirety** to obtain the correct score value. If any part of a multi-part question is incorrect, the score is zero.

Grade 7, Probe 33 Answer Key

Item No.	Answer	Correct	Incorrect
1.	$-4.6, \frac{-2}{5}, 2.9, \frac{10}{3}, 3.6$	1	0
2.	100	1	0
3.	5	1	0
4.	A	1	0
5.	567	2	0
6.	$>, >$	2	0
7.	6	1	0
8.	0.777	1	0
9.	$\frac{3}{12}$ or 3:12 or 3 in 12 or $\frac{1}{4}$ or 1:4 or 1 in 4	1	0
10.	-22	1	0
11.	\overline{AB}	1	0
12.	6	1	0
13.	8	1	0
14.	B	2	0
15.	Tuesday, 4	1	0
16.	3	1	0
17.	16	1	0
18.	1	2	0
19.	17	3	0
20.	29	2	0
21.	18	2	0
22.	2200	2	0
23.	66,654.2	2	0
24.	5900	2	0
25.	$\frac{20}{7}$	1	0
26.	246	2	0
27.	978.27	2	0
28.	6	2	0
29.	17	3	0
30.	14	2	0
31.	94.2	2	0

Total