

MATHEMATICS-V

Diagnostic Test

Name of Pupil: _____ Gr. & Section: _____

Directions: Read each question/problem carefully, compute if necessary and encircle the letter of the correct answer.

1. What number describes "1 millions, 5 hundred thousands, 2 ten thousands, 2 thousands, 9 hundreds, 5 tens and 3 ones?"
 a. 1 502 593 b. 1 225 953 c. 1 522 593 d. 1 922 953
2. What is twelve million three hundred seventy-two thousand fifty-six written in figures?
 a. 12 372 056 b. 12 327 056 c. 12 372 556 d. 12 327 556
3. What is 8 678 284 rounded to the nearest hundred thousands?
 a. 8 6900 000 c. 8 700 000
 b. 8 600 000 d. 8 600 000
4. Round the underlined digit in 9 785 215
 a. 9 700 000 b. 9 750 000 c. 9 790 000 d. 9 000 000
5. What is the greatest common factor of 72 and 40
 a. 8 b. 9 c. 10 d. 11
6. A number is divisible by 5 if _____.
 a. ones digit is 0 or 5 c. the number ends with 0, 2, 4, 6, 8
 b. the number ends with 0 d. ones digit is only 5
7. What word problem involving multiples can you make using the data below?
 Given : 10 mangoes / day
 Asked: total number of mangoes in 2 weeks
 a. Ram can eat 10 mangoes a day. How many mangoes can he eat in 2 months?
 b. Alan can harvest 10 mangoes per day in his mango tree. How many mangoes can he harvest in 2 weeks?
 c. There are 10 mangoes in each mango tree. How many mangoes are there in 2 mango trees?
 d. Each mango tree has 10 mango fruits. How many mango fruits are there in 2 mango trees?
8. Evaluate: $6 \times 20 + (27 \div 9)$.
 a. 120 b. 123 c. 23 d. 138
- 9.. What is the GCF of 30 and 45?
 a. 5 b. 6 c. 15 d. 30
10. Write 0.0004 in words Find the LCM of 4, 5, and 10?
 a. 10 b. 20 c. 30 d. 40
11. What is $1\frac{1}{2} + 2\frac{3}{4}$?
 a. 4 b. $4\frac{3}{4}$ c. $4\frac{1}{4}$ d. 1
12. Subtract: $5\frac{2}{3} - 2\frac{1}{2}$
 a. $3\frac{1}{6}$ b. $2\frac{3}{4}$ c. $4\frac{3}{4}$ d. 6
13. What is the product of $4\frac{1}{3}$ multiplied by $\frac{2}{5}$?
 a. $1\frac{12}{15}$ b. $1\frac{11}{15}$ c. $2\frac{12}{15}$ d. $2\frac{11}{15}$
14. Jessie took a 50-item test in Mathematics. He answered $\frac{4}{5}$ of it correctly. How many items did he answer correctly?
 a. 35 b. 40 c. 45 d. 46
15. What is $\frac{6}{7} \times \frac{2}{4}$
 a. $\frac{1}{2}$ b. $1\frac{1}{2}$ c. 2 d. $\frac{3}{7}$
- 16 Give the place value of the underlined digit 0.827
 a. tenths b. hundredths c. thousandths d. ten thousandths
17. Round 16.985 to the nearest hundredths
 A. 16.10 B. 16.98 C. 16.20 D. 16.97
18. Which of the following order numbers from greatest to least?
 a. 3.756 37.56 375.6 0.3756
 b. 0.2468 0.2486 0.2648 0.2846

- c. 11.010 11.011 11.0110 1.1101
d. 2.86 2.75 2.68 2.56

20. Danny traveled 61.3 kilometers on Monday and 43.75 kilometers on Tuesday. How many kilometers did he travel in two days?

- a. 105.05km b. 104.87km c. 103.635km d. 9.505km

21. Using the rounding off technique, find the estimated sum of $3.45 + 8.63 + 2.75$

- a. 13 b. 23 c. 15 d. 3

22. Create a problem using the given data.

Given : ₱2 900.00 - cost of mountain bike, ₱1 575.00 - down payments 5months - equal installment

Asked : pay for each installment

- a. Jess buy a mountain bike cost ₱2 900.00. he gave a down payment of ₱1 575.00. He will pay the remaining balance for 5 months installment? How much he can pay for each installment?
b. Jess buy a bike cost ₱2 900.00. he pay 1 575.00 - down payments how much change did he gets?
c. How much is the monthly installment?
d. Jess paid ₱2 900.00 - cost of mountain bike, ₱1 575.00 - down payments 5months - equal installment How much pay for each installment?

23. $\square : 7 = 24 : 56$

- a. 2 b. 3 c. 4 d. 5

24. Reduce ratios to lowest terms. $10 : 5$

- a. 2:2 b. 2:1 c. 1:1 d. 1:2

25. Solve for the missing term. $\frac{a}{32} = \frac{3}{4}$

- a. 12 b. 16 c. 24 d. 28

26. The school garden is about 35% of the total land area of the school.

How will you write 35% in decimals.

- a. 3.5 b. 0.35 c. 3.50 d. 0 .35%

27. Express 0.56 in percent.

- a. 0.56% b. 56% c. 56% d. 5.6%

28. In elements of percentage, what do you call the whole number?

- a. Rate b. percentage c. base d. percent

29. 25% of $900 = 225$; 25% is called _____

- a. Rate b. percentage c. base d. percent

30. 35% of 90 is N: what is N?

- a. 31.5 b. 21.5 c. 3.7 d. 13.7

31. On their family budget, Santosfamily allotted 45% for the education of their children.

If the family has a monthly income of P 13, 540.00, how much is allotted for the education of their children?

- a. 0963 b. 6093 c. 9063 d. 3063

32. Kris has a monthly allowance of P 4, 800.00. She allotted 60% of it for his studies.

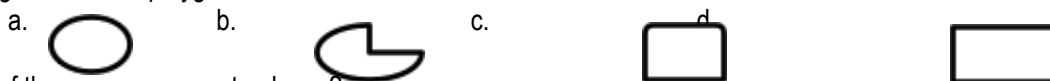
From this 60% , she allotted 25% of for his books. How much is allotted for books?

- a. 72 b. 702 c. 720 d. 270

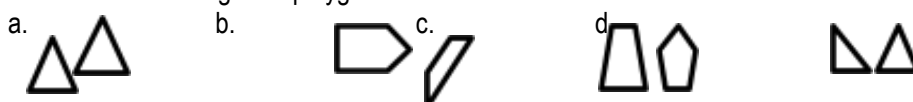
33. A polygon with eight sides is called _____

- a. Pentagon b. hexagon c. heptagon d. octagon

34. What figure shows a polygon?



35. Which of these are congruent polygon?



36. $r = 7.1$ yd Calculate the diameter of the circle.

- a. 14 yd b. 14.5 yd c. 14.05 yd d. 14.2yd

37. The line that is half of the diameter.

- a. secant b. tangenter c. radius d. diameter

38. . The diameter of the water tank is 412dm, what is its radius?

- a. 220 b. 206 c. 260 d. 620

39. Spatial figure which has an equidistant from its center.

- a. cone b. cylinder c. prism d. sphere

40. Which of these objects is an example of rectangular prism?

- a. shoe box b. dice c. ball d. funnel

41. After finishing her shopping, Chelsea wants to have Php25 left. She plans to buy sandals for Php45 and a purse for Php20. How much money does she need?

- a. P100.00 b. P95.00 c. P90.00 d. P85.00

42. Gian recorded the time as 3:45 A.M, what is it in 24 hour system?

- a. 3:45 A.M b. 5:45 A.M c. 13:45 PM d. 15:45PM

43. The radius of a circle is 5.6m, find its area.

- a. $89.4704m^2$ b. $98.4740m^2$ c. $98.4704m^2$ d. $89.4740m^2$

44. Find the volume of cube with sides that measures 7.5m.

- a. $412.875 m^3$ b. $421.875 m^3$ c. $418.227 m^3$ d. $412.27 21$.

45. A rectangular prism has length of 4.2cm width of 3cm and height of 10cm. Find its volume.

- a. $12.6c m^3$ b. $126.00c m^3$ c. $12.600c m^3$ d. $1260cm^3$

46.. Jan's sewing box is 3 dm long, 2.5 dm wide and 4.3 dm high. What is its estimated volume?

- a. $12dm^3$ b. $32d m^3$ c. $33d m^3$ d. $34dm^3$

47. A flower box is 5.3 m long, 1.6 wide, and 0.23 m high. How many cubic meters of soil will fill the box?

- a. $1.9504m^3$ b. $19.504 m^3$ c. $195.04 m^3$ d.195

48. A freezer is set at 0°C . Corina reset it to 8.5°C . Did the temperature in the freezer rise or drop? By how many degree?

- a. rise by 8.5°C b. drop by 8.5°C c. no d. maybe

49. Carlo boils water after a few minutes he found out it decreases by 17°C . What is the temperature of the water?

- a. 92°C b. 85°C c. 83°C d. 80°C

50. A Box contains 15 red balls, 12 blue balls and 13 green marbles.

Find the experimental probability of not getting a green ball?

- a. $\frac{10}{16}$ b. $\frac{15}{16}$ c. $\frac{12}{16}$ d. $\frac{13}{16}$