

XPERTXPERTSTEM Mathematics Sample Test for Division 1 (Grade 2-3-4)

1. $2103 \div 3 = \underline{\hspace{2cm}}$?
- a. 705
b. **701**
c. 940
d. 458
2. The following numerical pattern is on the board: 5, 11, 17, 23, 29
The teacher then asked the students to write a similar pattern. Which set of numbers follows the teacher's pattern?
- a. 2, 4, 6, 8, 10
b. 3, 6, 9, 12, 15
c. **2, 8, 14, 20, 26**
d. 1, 4, 7, 10, 13
3. Which equals 23 kilograms?
- a. 230 grams
b. 2300 grams
c. **23000 grams**
d. 230000 grams
4. The measure of how hot or cold something is called ____.
- a. density
b. **temperature**
c. volume
d. solid
5. Which numerical pattern follows the rule "subtract 2, then multiply by 3," when starting with 5?
- a. 5, 7, 21, 69
b. 5, 2, 4, 1, 2
c. 5, 15, 13, 39, 37
d. **5, 3, 9, 7, 21, 19, 57**
6. Is $4/12$ less than, greater than, or equal to $1/2$?
- a. Not greater than $1/2$
b. greater than $1/2$
c. equal to $1/2$
d. **less than $1/2$**
7. What is 1935 rounded to the nearest thousand?
- a. 1940
b. 1900
c. 2040
d. **2000**
8. If the digits in the hundreds place of 37432 is doubled the new number will be ____.
- a. 37434
b. 37462
c. **37832**
d. 67432
9. Which fraction is equivalent to the shaded part of model?
- 
- a. **$1/3$**
b. $2/3$
c. $3/6$
d. $6/10$
10. Which figure must contain four right angles and four sides of equal length?
- a. quadrilateral
b. rectangle
c. rhombus
d. **square**

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11. What is $\frac{1}{10}$ written as a decimal?

- a. 1.0
- b. 0.01
- c. 0.001
- d. 0.1

12. Animals that help break down the dead organisms that fall to the ground are ____.

- a. decomposers
- b. consumers
- c. scavengers
- d. producers

13. 28, 35, 42, 49, 56 are all multiples of which number?

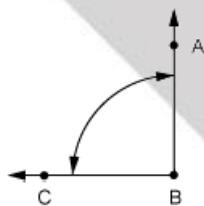
- a. 7
- b. 3
- c. 12
- d. 8

14. Find the difference: $3\frac{1}{4} - 2\frac{3}{4} =$ ____.

- a. $1\frac{2}{4}$
- b. 1
- c. $\frac{3}{4}$
- d. $\frac{2}{4}$

15. Name the angle?

- a. obtuse
- b. right
- c. acute
- d. left



16. 4 min. = ____ sec?

- a. 40
- b. 60
- c. 120
- d. 240

17. Carol received 189 votes for class president. Emma received twice that number of votes. How many votes did Emma receive?

- a. 278
- b. 368
- c. 378
- d. 345

18. What is the sum in simplest form? $3\frac{3}{7} + \frac{9}{2}$

- a. $\frac{111}{4}$
- b. $\frac{111}{44}$
- c. $\frac{119}{44}$
- a. $\frac{191}{44}$

19. Tyler and his father are raising funds for a new animal shelter. They require \$4000. So far, Tyler has raised \$2789. His father has raised \$1286. Have they raised enough money and how much is missing or in excess?

- a. Yes they raised the exact amount
- b. Yes with \$65 extra
- c. No with \$65 less
- d. Yes with \$75 extra

20. Half an hour is ____ seconds?

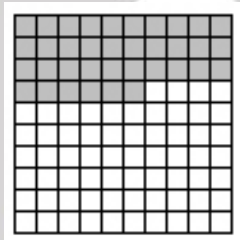
- a. 18000
- b. 1800
- c. 3000
- d. 30

21. The square of 6 is divided by 9, then multiplied by 8 and then 7 is added. Is this number a prime number and what is its value?

- a. No 79
- b. Yes 81
- c. **Yes 79**
- d. No 81

22. Which decimal and fraction are shown by the grid?

- a. 0.36 ; 36/10
- b. **0.36 ; 36/100**
- c. 0.46 ; 46/10
- d. 0.46 ; 46/100



23. Luke is 6 & Padme is double his age. What will be the sum of their ages in 6 years?

- a. 36
- b. 24
- c. 18
- d. **30**

24. A square has a perimeter of 24 inches. What is the area of the square?

- a. **36 square inches**
- b. 144 square inches
- c. 12 square inches
- d. 28 square inches



25. A community started an adult softball league. The first year there were 19 players. The next year there were 23 players. The third year there were 27 players and the fourth year 31 players. If this pattern continues, how many players will there be in the sixth year?

- a. 35
- b. 33
- c. 43
- d. **39**

26. Side BC measures 9 cm. Side CD is half of side BC. What is the perimeter of this shape?

- a. **27 cm**
- b. 18.5 cm
- c. 13.5 cm
- d. 36 cm

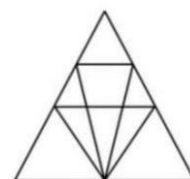


27. If you toss 3 coins how many different possible combinations of heads and tails will you get?

- a. **8**
- b. 6
- c. 3
- d. 9

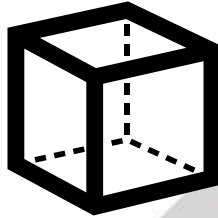
28. Find the number of triangles in the diagram below?

- a. 12
- b. 16
- c. **18**
- d. 22



29. What is the volume of this cube if the amount of faces were the dimensions of the cube in cm?

- a. 36 cm^2
- b. 216 cm^3
- c. 216 cm^2
- d. 36 cm^3



30. What is the approximate measure of the angle?

- a. 90°
- b. 30°
- c. 60°
- d. 150°

