**6.RP.1-6.RP.3 v.1**

**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**6.RP.1**

**(18-1) I CAN write a ratio that describes a relationship between two quantities.**

0.5 pts.

1. In the cafeteria, there are 200 chairs and 8 tables. Write a ratio that represents the relationship of chairs to tables.

a. 200:8 c. 25 to 8

b. 8:200 d. 8

200

0.5 pts.

2. While walking in the park, Jodi saw 7 squirrels and 9 birds. Write a ratio that represents the relationship of squirrels to birds.

a. 9:7 c. 7 to 9

b. 9 d. 7 - 9

7

2 pts.

3. Sidney counted 12 red blocks and 7 blue blocks. Write a ratio that represents the relationship of red blocks to blue blocks.

a. 5 to 7 c. 7:12

b. 7 to 12 d. 12

7

2 pts.

4. There are 5 empty chairs and 18 filled chairs in the classroom. Write a ratio that represents the relationship of empty chairs to filled chairs.

a. 18:5 c. 5 + 18

b. 5 to 18 d. 18

5

3 pts.

5. In the gym storage room, there are 11 basketballs and 4 footballs. Write a ratio that represents the relationship of basketballs to footballs.

a. 11 to 4 c. 4:11

b. 4 d. 11 – 4

11

**6.RP.2**

**(19-1) I CAN convert a given ratio to a unit rate.**

0.5 pts.

6. Larry traveled 240 miles in 4 hours. Find the unit rate to find his speed per hour.

a. 200 miles per hour c. 60 miles per hour

b. 960 miles per hour d. 0.0167 miles per hour

0.5 pts.

7. It costs $12.50 to purchase 10 bottles of water from a vending machine. How much does each bottle cost?

a. $0.80 / bottle c. $120 / bottle

b. $1.25 / bottle d. $125 / bottle

2 pts.

8. On a bookstore's online site, you can buy 6 books for $32.16. How much does each book cost?

a. $0.19 / book c. $26.16 / book

b. $192.96 / book d. $5.36 / book

2 pts.

9. Allison's car can drive 450 miles on just 12 gallons of gas. What is the car's mileage per gallon?

a. 5,400 miles per gallon c. 0.027 miles per gallon

b. 438 miles per gallon d. 37.5 miles per gallon

3 pts.

10. Han spent 20 minutes typing a 3,000 word essay. What is his speed in words per minute?

a. 60,000 words per minute c. 2,980 words per minute

b. 150 words per minute d. 0.0067 words per minute

**6.RP.3**

**(20-1) I CAN create a table of equivalent ratios./I CAN find the missing values in a table of equivalent ratios.**

0.5 pts.

11. Complete the table.

|  |  |
| --- | --- |
| Words | Minute |
| 32 | 8 |
| 40 |  |
| 56 |  |
| 80 |  |

a. 160, 224, 320 c. 10, 14, 20

b. 5, 7, 10 d. 40, 64, 88

0.5 pts.

12. Complete the table.

|  |  |
| --- | --- |
| Cars | Minute |
| 5 | 25 |
|  | 35 |
|  | 40 |

a. 15, 20 c. 7, 9

b. 20, 30 d. 7, 8

2 pts.

13. Complete the table.

|  |  |
| --- | --- |
| Miles | Hour |
| 80 | 10 |
| 56 |  |
| 32 |  |
| 8 |  |

a. 7, 4, 1 c. 448, 256, 56

b. 5.6, 3.2, 0.8 d. -14, -38, 78

2 pts.

14. Complete the table.

|  |  |
| --- | --- |
| Dollars | Ounce |
| 7 | 21 |
|  | 27 |
|  | 36 |
|  | 45 |

a. 4, 5, 6 c. 20, 29, 38

b. 9, 12, 15 d. 28, 43, 52

3 pts.

15. Complete the table.

|  |  |
| --- | --- |
| Cents | Gallon |
| 450 | 75 |
| 336 |  |
| 204 |  |
| 162 |  |
| 114 |  |

a. 56, 34, 27, 19 c. 2,016, 15,300, 972, 684

b. 411, 279, 237, 189 d. 216, 129, 87, 39

**(20-2) I CAN use proportional reasoning to solve unit rate problems.**

0.5 pts.

16. Find x.

x = 72

1 9

a. 648 c. 9

b. 576 d. 8

0.5 pts.

17. Find p.

50 = 25

2 p

a. 4 c. 2

b. 1 d. 27

2 pts.

18. Find w.

180 = w

144 36

a. 720 c. 176

b. 4 d. 45

2 pts.

19. Find z.

42 = 210

z 325

a. 65 c. 5

b. 283 d. 650

3 pts.

20. Find m.

m = 150

56 140

a. 2.5 c. 300

b. 375 d. 60

**(20-3) I CAN find the percent of a given number.**

0.5 pts.

21. What is 38% of 65?

a. 2,470 c. 1.7

b. 24.7 d. 171.1

0.5 pts.

22. Find 82% of 96.

a. 1.2 c. 7,872

b. 117.1 d. 78.7

2 pts.

23. There are 154 students in 6th grade. Only 4 percent of the 6th grade eats the suggested amount of vegetables per day. How many students eat the suggested amount of vegetables daily?

a. 6 c. 3,850

b. 62 d. 385

2 pts.

24. If 78% of the 181 fans in the stands are applauding for the team, how many fans are applauding?

a. 232 c. 141

b. 2 d. 14,118

3 pts.

25. In the bag, there were 42 marbles. Nine percent of the marbles are green. How many green marbles are in the bag?

a. 378 c. 38

b. 4 d. 467

**(20-4) I CAN find the whole when given both the part and the percent.**

0.5 pts.

26. Seventy-nine swimmers in the ocean are wearing blue swimsuits. This represents 51% of the swimmers in the ocean. How many swimmers are there in the ocean?

a. 40 c. 155

b. 4,029 d. 2

0.5 pts.

27. If 28% of the class enjoys creating art, and this 28% represents 18 students, how many students are in the class?

a. 5.0 c. 1

b. 504 d. 64

2 pts.

28. Ninety-four percent of students on the bus have a pencil for class. If 26 students on the bus have pencils, how many students are on the bus?

a. 28 c. 1

b. 4 d. 24

2 pts.

29. There are 30 red flowers in the garden. This represents 63% of the flowers in the garden. How many flowers are in the garden?

a. 19 c. 48

b. 1,890 d. 1

3 pts.

30. Forty-five percent of the dogs in the park are brown. This represents 13 dogs. How many dogs are in the park?

a. 4 c. 346

b. 29 d. 1