MidTerm Exam Review WS A **Name**

**1.** Are the two 9s in the number 9090 worth the same value? Explain.

**2.** Find two descriptions that match each number in the table below. Write the two letters for the matching descriptions underneath the number.

3300 30 330 33 030

|  |  |
| --- | --- |
| **A** – Thirty thousand three hundred thirty | **D** – 3 ten thousands + 3 hundred + 3 tens |
| **B** – Three thousand three hundred | **E** – Thirty three thousand thirty |
| **C** – 3 ten thousands + 3 thousands + 3 tens | **F** - 3 thousands and 3 hundreds |

**3.** Identify the fractions represented by the shaded part. Circle the LARGER fraction for each.

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**4.** $\frac{30}{40}+ \frac{1}{2}= \\_\\_\\_\\_$

**6.** $\frac{7}{8}$ - $ \frac{1}{12}$ =

**5.** $\frac{7}{8}÷\frac{3}{4}$ =

**7.** 2 x $\frac{1}{3}$ =

**8.** A recipe requires $\frac{1}{4}$ teaspoon cayenne pepper, $\frac{1}{3}$ teaspoon black pepper, and $\frac{1}{8}$ teaspoon red pepper. **How much pepper does the recipe need?**

**9.** Write in the words that best match the decimal

1. 0.5 ¼ of something
2. 0.25 almost a whole
3. 0.32 about 1/3 of something
4. 0.98 ½ of something

**10.** To make 5 litres of a fruit cocktail, Tamara mixed the following ingredients:

|  |  |  |  |
| --- | --- | --- | --- |
| Orange Juice | Pineapple Juice | Grapefruit Juice | Lemon Juice |
| $1\frac{3}{4}$ litre | $1\frac{1}{3}$ litre | $\frac{5}{6}$ litre | ? litre |
| a) Convert to Improper. Show your work. |
|  |  |  |  |
| b) Convert to common denominator. Show your work. |
|  |  |  |  |
| c) Add all the fractions together |
|  |
| d) Subtract total from whole: |

 **Solve:** How many litres of lemon juice will she have to add to the mixture?

**11.** The full grid represents one whole.

Write the fraction, decimal and the percent for how much is shaded for each.



**12.** Fill in the table

|  |  |  |
| --- | --- | --- |
| Fraction | decimal | Percent |
| $$\frac{14}{60}$$ |  |  |
|  | 1.35 |  |
|  |  | 475% |
| $$\frac{5}{6}$$ |  |  |

**13.**

|  |  |
| --- | --- |
| 45 % of 148 = | 0.30 off $350 = |
| 2% of $12,000 = | 50% of 200 = |

**14.** The price of a new Tesla is $44,500. To purchase this car a down payment of $8,750 is required. **What percent is the down payment of the regular price?** Show your work.

**15.** Ms. Jackson is planning a school hiking trip to the Adirondacks. She needs to pay a 15% deposit from the total cost by a certain date. In order to do that, she needs to present that information to her Principal and the School Council for approval.

We have the following information:

* There are 987 students in the whole school.
* $\frac{5}{9}$ of the students are boys
* 450% of the girls are going on the field trip
* $\frac{1}{3}$ of the boys are going on the field trip
* The price per student is $126, including tax.

**What is the total deposit that Ms. Jackson must present to the Principal and School Council?**

**16.** Would each of the following result in a negative and/or positive value?

1. A temperature drop of 10 degrees …
2. Deep sea diving ………
3. Earning $1200 …………………………...
4. $40 in debt …………………………………

**17. a)** (-13) + (+5) **b)**. 98 – (-34) – (-87)

**18**. Metal mercury at room temperature is a liquid. Its melting point is -39°C. The freezing point of alcohol is -114°C. **How much colder is freezing point of alcohol than the melting point of mercury?**

**19. a)** 8 x 15  – 12 + 7 x 2 **b)** 9 ÷ 3 + 17 x 2

**20**. Erik and his uncle won $3000 at the Sens game last week in the 50/50 contest. They are going to give half of it to charity, $200 to Erik’s grandma, and they will split the rest between the two of them.

a) Write this situation as **one single expression**, showing **all** necessary **operations**

b) Solve

**21**.**a)** $\frac{3}{5}$ $÷$ $\frac{1}{4}$ x $\frac{2}{3}$ **b)** $\left[2\frac{1}{3}- 3\frac{1}{2}\right] X \left[5\frac{1}{2}- 3\frac{3}{4}\right]$

**c)** 70 – [(-6)2 ÷ (4.7 + 7.3)]