**MATHEMATIC**
**MID-TERM EXAMINATION**
**Even Semester, February 2021**
**Academic Year of 2021/2022**

Name :

Class :

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I. **Choose A, B, or C for the best answer. (10 Points)**

1. A dozen means
   a. 25
   b. 12
   c. 35

2. A ream means
   a. 500
   b. 100
   c. 250

3. A gross means
   a. 114
   b. 144
   c. 145

4. A score means
   a. 20
   b. 40
   c. 15

5. How many pens of 6 scores ?
   a. 140 pens
   b. 120 pens
   c. 100 pens

6. How many dozen of 36 books ?
   a. 4 dozen
   b. 3 dozen
   c. 2 dozen

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7. How many bottles of 2 gross ?
   a. 288 bottles
   b. 286 bottles
   c. 268 bottles

8. When a car travels from point A to point B, the difference between the two points is called…
   a. Speed
   b. Distance
   c. Time

9. How much distance is travelled in a certain amount of time, is called…
   a. Speed
   b. Distance
   c. Time

10. What is the formula triangle of distance, speed and time ?
    a. Distance = Speed x Time
    b. Speed = Time x Distance
    c. Time = Distance x speed

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II. **Cross (X) T if each of the following statements is TRUE and F if it is FALSE. (10 points)**

| | | | |
|---|---|---|---|
| 1 | $4^2 = 4 \times 4$ | **T** | **F** |
| 2 | $8^3 = 8 \times 8 \times 8$ | **T** | **F** |
| 3 | $2^5 = 2 \times 2 \times 2 \times 2 \times 2 = 32$ | **T** | **F** |
| 4 | $\sqrt{900} : \sqrt{25} = 6$ | **T** | **F** |
| 5 | $35^2 - \sqrt{625} \times \sqrt{1.024} = 425$ | **T** | **F** |
| 6 | $17^2 + 31^2 - 28^2 = 466$ | **T** | **F** |
| 7 | $\sqrt{625} = 15$ | **T** | **F** |
| 8 | $(27^2 - 21^2) \times 11^2 = 34.848$ | **T** | **F** |
| 9 | $300 > 17^2$ | **T** | **F** |
| 10 | $\sqrt{1.369} > 35$ | **T** | **F** |

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III. **Answer the following questions. (5 points)**

1. In this shop, you can buy tins of beans cost Rp47.000,00 each, or Rp270.000,00 for 6 tins.

   What is the **unit price** of each tin in the 6-tin deal ?

2. Arrange these from smallest to largest: dozen, ream, gross and score.

3. A train travels at 75 km/h. How far will it travel in 3 hours?

4. Sara's dad is draining their swimming pool.
   The pipe can drain 250$m^3$ per minute.
   There are 10.000 litres of water in the pool.
   How long will it take to drain the pool?

5. Putri is filling her fish tank.
   It is 60.000cm3 in volume.
   The small hose fills 250cm3 of water per minute.
   How long will it take to fill the fish tank?

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