1. If 14 kg of pulses cost $ 441, what is the cost of 22 kg of pulses?

    (a) $ 627

    (b) $ 649

    (c) $ 671

    (d) $ 693

2. If 36 men can do a piece of work in 25 days, in how many days will 15 men do it?

    (a) 50

    (b) 56

    (c) 60

    (d) 72

Solve each proportion.

1) $\dfrac{10}{8} = \dfrac{n}{10}$

2) $\dfrac{7}{5} = \dfrac{x}{3}$

3) $\dfrac{9}{6} = \dfrac{x}{10}$

4) $\dfrac{7}{n} = \dfrac{8}{7}$

Mathematics ⑨
Applying the Concepts
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Rate and Unit Rate Quiz
(See related pages)

Unit 7E Quiz 1 part 2

1 During a three day open house, an art gallery recorded 345 visitors. What is the average rate of visitors per day?

- **A)** 0.007
- **B)** 115
- **C)** 345
- **D)** 1035

2 A coffee house sold 640 L of coffee, and used 40 L of cream. What was the average rate of cream used per litre of coffee?

- **A)** 16
- **B)** 1.6
- **C)** 0.625
- **D)** 0.0625

3 A museum noticed that 18 of the 300 visitors in a week became members of the museum. What is the rate of joining per visitor?

- **A)** 0.06 %
- **B)** 0.6 %
- **C)** 6 %
- **D)** 18 %

4 A tap delivers water at a rate of 12 L/min. How long will it take to fill a pool with a volume of 4800 L?

- **A)** 0.0025 min
- **B)** 12 min
- **C)** 400 min
- **D)** 57 600 min

5 The island of Costa Lido has an over employment rate estimated at an average of 1.32 jobs per citizen. If the population is 2200, how many jobs are there?

- **A)** 2904
- **B)** 2200
- **C)** 1667
- **D)** 1320

6 The Northern Motor Company has discovered a manufacturing error which affected 2.5% of the 1600 automobile engines delivered in the previous month. How many are expected to have the problem?

- **A)** 40
- **B)** 400
- **C)** 640
- **D)** 1600

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