Mastery Assessments: Sample Questions (Maths and Science)

Class: 7th

General Information:

1. Each Mastery Assessment will consist of 15 questions each.

2. Questions will be objective in nature.

3. Each student will get two chances to improve his/her score

Grading Criteria:

11 – 15 Marks: Mastery ;   10 Marks: Close to Mastery;   Below 10 : Not close to Mastery

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The questions given below are just to familiarize you with mastery questions.

Q1. The following equations were written by four students.

Palak: $-4 \times (11 - 6) = -4 \times 11 + (-4) \times (-6)$

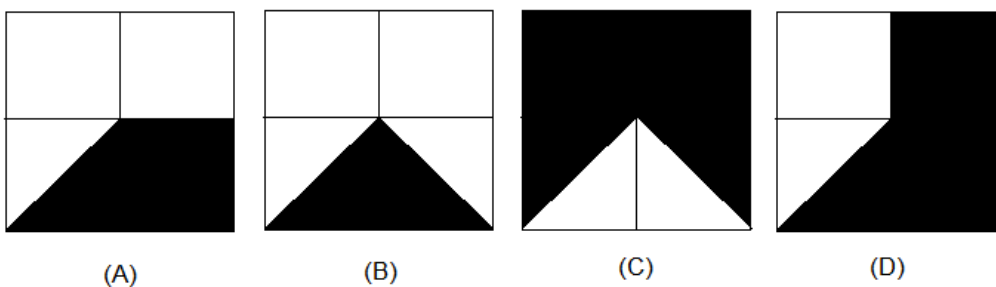Peter: $6 \times (2 - 15) = 6 \times 2 - 6 \times 15$

Puneet: $-8 \times (-8 - 9) = -8 \times (-8) + (-8) \times (-9)$

Prakash: $-7 \times (-3 - 5) = -7 \times 3 - 7 \times 5$

Who among them **made a mistake**?

(A) Palak   (B) Peter   (C) Puneet   (D) Prakash

Q2. Which of the given figures correctly represent $\dfrac{3}{8}$?

(A)   (B)   (C)   (D)

Q3. Which of these is the greatest?

(A) 6.1099999   (B) 6.0199999   (C) 6.1909999   (D) 6.191

Q4. Which of the statement is correct for the equation: 3x – 2 = 6?

(A) When 6 is subtracted from 3 times x, then 2 is obtained.

(B) When 2 is subtracted from 3 times x, then 6 is obtained.

(C) When three times x is subtracted from 2, then 6 obtained.

(D) When 2 is subtracted from 6 times x, then 3 is obtained.

Q5. You participated in a race. You started off with slow speed and after some time you decided to stop and have some water and then you started running again at slightly faster speed and maintained the same the speed throughout till the end of the race. Choose a distance (d)-time (t) graph that best depicts your motion.
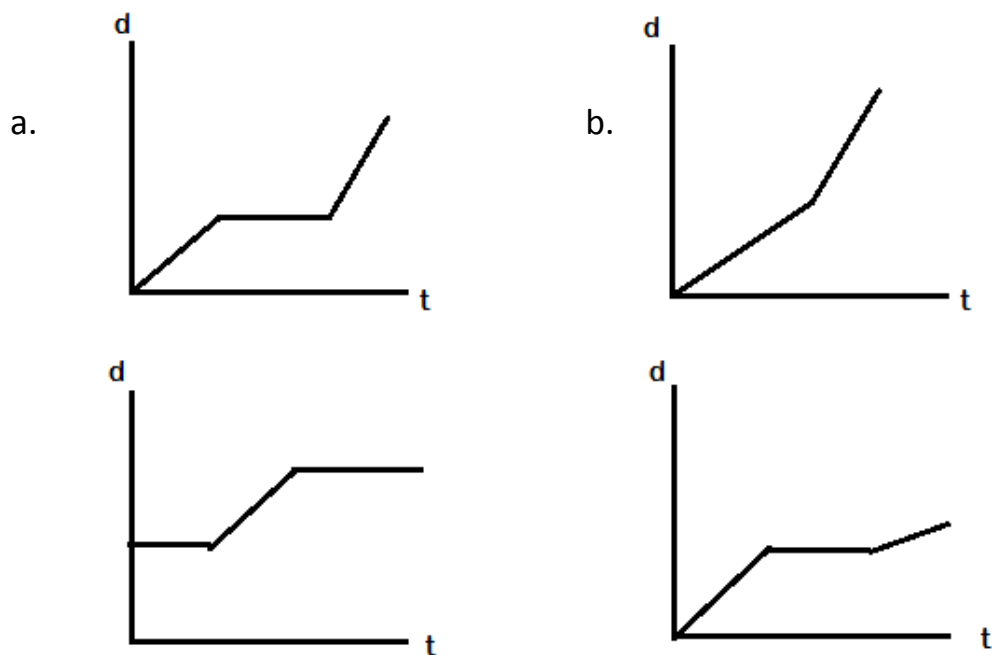
Q6. You can walk a distance of 100 m in 50 seconds while your friend Raju walks 1000 m in 1000 seconds. Whose walking speed is more?

(a) Yours   (b) Raju's

(c) Both have same jogging speed   (d) Cannot be determined