GRADE 8

MATHEMATICS

SECTION A (20 MARKS)

1. There are 46291 grade 8 learners in a subcounty. What is the place value of digit 6 in the number 46291?

A. Thousands B. Hundreds C. Tens D. Units

2. Work out 3/4 + 2/3 in its simplest form.

A. 17/12 B. 1/2 C. 7/6 D. 9/7

3. During a discussion on integers, a learner wrote the following numbers. Which of the following is not an integer?

A. -15 B. 2.5 C. 0 D. 40

4. Express 0.45 as a fraction in its simplest form.

A. 45/100 B. 2/5 C. 5/11 D. 9/20

5. A worker dug a trench 200 m long in 8 days. At what rate per day was he working?

A. 15m per day B. 25m per day C. 1600m per day D. 200m per day

6. A farmer has a 36 kg sack and a 60 kg sack. He is using smaller sacks to fill the two sacks. Find the mass of the biggest sack he can use.

A. 12 B. 180 C. 24 D. 6

7. A rectangular farm measures 80 m by 60 m. What is its area in hectares?

A. 0.48 B. 4.8 C. 48 D. 480

8. What is the value of x in the equation $3x + 5 = 14$?

A. 6 B. 4 C. 5 D. 3

9. Work out the value of $-6 + -4 - 2 \times 10 \div 2$

A. 0 B. -10 C. -20 D. 10

10. Round off 47891 to the nearest thousand.

A. 48000 B. 47000 C. 47900 D. 47100

11. A football pitch is 90 m long and 60 m wide. A learner stretched a rope round the pitch to act as a barrier. What is the length of the rope?

A. 150m B. 300m C. 600m D. 240m

12. What is the solution to $2x \geq 16$?

A. $x \leq 14$ B. $x \geq 8$ C. $x \geq 4$ D. $x \geq 32$

13. A tailor had a thread 240 cm. He cut the thread into three pieces in the ratio 1:2:3. What is the length of the longest piece?

A. 40 cm B. 80 cm C. 120 cm D. 160 cm

14. The volume of an object was given as 705.46 cubic units. What is the volume written in standard form?

A. 70.546×10^{1} B. 7.0546×10^{2} C. 0.70546×10^{3} D. 7054.6×10^{-1}

15. In a Mathematics assessment marked out of 40, a learner scored 36. Which of the following represents the score as a percentage?

A. 36% B. 80% C. 90% D. 75%