

SANGAM SKM COLLEGE – NADI
HOME BASED EDUCATIONAL SUPPORT
MATHEMATICS YEAR 12
WORKSHEET 3: WEEK 4

QUIZ ON SEQUENCE AND TRIGONOMETRY

1. Considering the following pattern $2 \times (2 + 2)$, $3 \times (3 + 2)$, $4 \times (4 + 2)$, $5 \times (5 + 2)$, the 7th line in the pattern will be
- A. $8 \times (8 + 2)$
 - B. $9 \times (9 + 2)$
 - C. $6 \times (6 + 2)$
 - D. $7 \times (7 + 2)$

2. In the following number sequence 40960, 10240, 2560, 640, the next three numbers in the sequence are
- A. 300, 150, 50
 - B. 200, 90, 10
 - C. 160, 40, 10
 - D. 180, 60, 20

3. In trail mix, the ratio of cups of peanuts to chocolate candies is 3 to 2. How many cups of chocolate candies would be needed for 9 cups of peanuts?



- A. 6 cups
- B. 3 cups
- C. 4 cups
- D. 8 cups

4. Two joggers run 8 miles north and then 15 miles west. What is the shortest distance, they must travel to return to their starting point?
- A. 17 miles
 - B. 17 mi.
 - C. 23 miles
 - D. 7 miles

5. Breanna has a laptop computer that has a 37-centimeter diagonal screen. The width of the laptop is 12 centimeters. What is the length of the laptop?
- A. 35 centimeters
 - B. 49 centimeters
 - C. 25 centimeters
 - D. 35 meters