

**TIMSS**  
**GRADE8**  
**MATHEMATICS**  
**Practice paper 2**

1. A workman cut off  $\frac{1}{5}$  of a pipe. The piece he cut off was 3 meters long.  
How many meters long was the original pipe?  
A. 8m   B. 12m   C. 15m   D. 18m
2. Peter, James, and Andrew each had 20 tries at throwing balls into a basket.  
Complete the missing boxes below

Name	Number of Successful Shots	Percentage of Successful Shots
Peter	10 out of 20	50 %
James	15 out of 20	<input type="text"/>
Andrew	<input type="text"/> out of 20	80%

3. Here is a pattern:  
 $3 - 3 = 0$   
 $3 - 2 = 1$   
 $3 - 1 = 2$   
 $3 - 0 = 3$   
 What will the next line in the pattern be?  
 Answer: \_\_\_\_\_
4. Kim is packing eggs into boxes. Each box holds 6 eggs.  
She has 94 eggs. What is the smallest number of boxes she needs to pack all the eggs? Answer: \_\_\_\_\_
5. Which of these number sentences is true?  
 A.  $\frac{3}{10}$  of 50 = 50% of 3      B. 3% of 50 = 6% of 100  
 C.  $50 \div 30 = 30 \div 50$       D.  $\frac{3}{10} \times 50 = \frac{5}{10} \times 30$
6. Which number is equal to  $\frac{3}{5}$  ?  
 A. 0.8    B. 0.6    C. 0.53    D. 0.35

7. Which shows a correct method for finding  $\frac{1}{3} - \frac{1}{4}$ ?

- A.  $\frac{1-1}{4-3}$     B.  $\frac{1}{4-3}$     C.  $\frac{3-4}{3 \times 4}$     D.  $\frac{4-3}{3 \times 4}$

8.  $42.65 + 5.748 =$  \_\_\_\_\_

9. What is the sum of the three consecutive whole numbers with  $2n$  as the middle number?

- A.  $6n + 3$     B.  $6n$     C.  $6n - 1$     D.  $6n - 3$

10. There were  $m$  boys and  $n$  girls in a parade. Each person carried 2 balloons.

Which of these expressions represents the total number of balloons that were carried in the parade?

- A.  $2(m + n)$     B.  $2 + (m + n)$     C.  $2m + n$     D.  $m + 2n$

11. The table above shows the shadow lengths of four bushes of different heights at 10 a.m. What is the shadow length at 10 a.m. of a bush that has a height of 50 centimeters?

Bush height (cm)	Shadow length (cm)
20	16
40	32
60	48
80	64

- A. 36 cm    B. 38 cm    C. 40 cm    D. 42 cm

12. The taxi company has a basic charge of 25 zeds and a charge of 0.2 zeds for each kilometer the taxi is driven. Which of these represents the cost in zeds to hire a taxi for a trip of  $n$  kilometers?

- A.  $25 + 0.2n$     B.  $25 \times 0.2n$     C.  $0.2 \times (25 + n)$     D.  $0.2 \times 25 + n$

13. Use the formula  $y = 100 - \frac{100}{1+t}$  to find the value of  $y$  when  $t = 9$

Answer: \_\_\_\_\_

14. If  $t$  is a number between 6 and 9, then  $t + 5$  is between what two numbers?

- A. 1 and 4    B. 10 and 13    C. 11 and 14    D. 30 and 45

15. Simplify the expression  $\frac{3x}{8} + \frac{x}{4} + \frac{x}{2}$  Show your work

Answer: \_\_\_\_\_