

***Tests for Math Competency for  
Information-Communication technologies***

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1. 10% of 18 is . . . . ?
2. 40 is what percent of 200 . . . ?
3.  $\frac{2}{5}$  expressed a decimal is . . . ?
4.  $\frac{1}{1-0.8}$  is equal to . . . ?
5.  $(\frac{1}{2}) \times (\frac{3}{4})$  is equal to . . . ?
6.  $(\frac{2}{3}) > (\frac{3}{4})$  - true or false ?

7. If  $X=4$ , and  $Y=6$ ; the arithmetic (simple)

average of  $X$  and  $Y$  is . . . ?

8. Given:  $Y=2X$ , when  $X=3$  then  $Y$  is equal to .

.. ?

9.If  $X>Y$ , then  $-X<-Y$  - true or false?

10. If  $X>Y$ , then  $(1/X) < (1/Y)$  - true or false?

11. Given:  $Y=24-6X$ , when  $X=4$  then  $Y$  is equal

to . . . ?

12. If the price of a good (P) were \$10 on 1 Jan 2012 and on 1 Jan 2013 the price was \$12, the percentage change in price was . . . ?

13. An inverse relationship between X and Y exists when as X increases, Y . . . . ?

14. The equation,  $Y=11$  is represented by line \_\_\_ ? in the Figure.

15. In Figure, the line that represents the equation,  $Y=16 - 2X$  is . . . ?

16. Given the equation,  $Y=16 - 2X$ , when  $X=4$ ,  $Y= . . . ?$

17. Given the equation,  $Y=16 - 2X$ , the slope of the function is . . . ?

18. Given the equation,  $Y=10 - 0.5X$ , a one unit decrease in  $X$  will . . . ?

19. In Figure - a positive relationship between  $X$  and  $Y$  is shown by line . . . ?

20. Which line(s) suggest a negative relationship between  $X$  and  $Y$ ?

21. Which line in Figure has a slope of 0?

22. In Figure, the  $Y$  intercept of line B is . . . ?