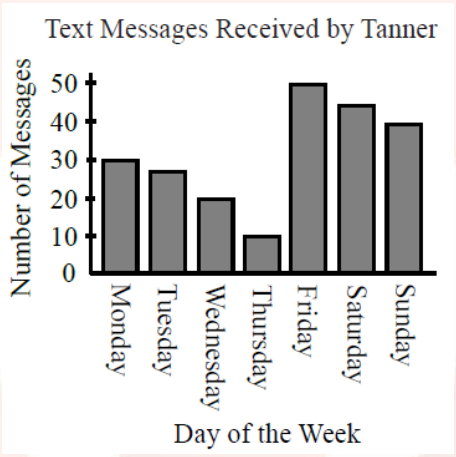
30 IMPORTANT QUESTION CLASS 04

1. The graph shows the number of text messages received by Tanner in a given week. On what day did Tanner receive the most text messages?



(A) Friday (B) Thursday

(C) Saturday (D) Monday

(E) Wednesday

2. Which of the following is a multiple of 7?

(A) 75 (B) 76

(C) 77 (D) 78

3. Which of these fractions is larger than $\frac{1}{2}$?

(A) $\frac{2}{5}$ (B) $\frac{2}{7}$

(C) $\frac{4}{7}$ (D) $\frac{3}{8}$

4. The measures of two angles of a triangle are 25°and 70°. The measure of the third angle is

(A) 85° (B) 90°

(C) 95° (D) 45°

5. The following table shows the number of steel cups sold by Vishal in past week

Steel Cups sold	
Day	**Number of cups**
Wednesday	317
Thursday	337
Friday	371
Saturday	313

On which day did Vishal sold the fewest steel cups?

(A) Friday (B) Wednesday

(C) Thursday (D) Saturday

6. Carrie is travelling at a constant speed of 85 km/h. If Carrie is halfway through a 510km trip, how much longer will the trip take?

(A) 85 hours (B) 510 hours

(C) 30 hours (D) 3 hours

7. Each of ☐, △and ♦represents a non-zero number. If ☐= △+△+△and ☐= ♦+♦, then ☐+ ♦+△equals

(A) ☐+ △

(B) ♦+△+ △ +△+ △

(C) ♦+ ♦+☐

(D) △ + △ + △ + ♦+♦

8. The value of (8 × 4) + 3 is

(A) 32 (B) 29

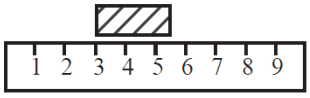
(C) 38 (D) 35

9. Which number is largest?

(A) 4,896 (B) 8,764

(C) 7,456 (D) 8,664

10. A small block is placed along a 10 cm ruler. Which of the following is closest to the length of the block?



(A) 5.4 cm (B) 0.24 cm

(C) 2.4 cm (D) 4.4 cm

11. The value of 1 + 0.01 + 0.0001 is

(A) 1.0001 (B) 1.0010

(C) 1.0100 (D) 1.0101

12. $\frac{1}{2}+\frac{1}{4}+\frac{1}{8}$ is equal to

(A) 2 (B) 7/64

(C) 3/64 (D) 7/8

13. A regular polygon has perimeter 108 cm and each side has length 12 cm. How many sides does this polygon have?

(A) 12 (B) 10

(C) 11 (D) 9

14. A five digit number is

(A) 8 lakh (B) Fifty thousand

(C) 9 hundred (D) None of these

15. 4:1 + 1:05 + 2:005 equals

(A) 7:155 (B) 9:4

(C) 7:23 (D) 6:804

16. On a map of Nunavut, a length of 1 centimetre measured on the map represents a real distance of 60 kilometres. What length on the map represents a real distance of 540 kilometres?

(A) 9 cm (B) 0.90 cm

(C) 90 cm (D) 0.009 cm

17. In ΔPQR, the sum of $\angle P$ and $\angle Q$ is 60^o. The measure of $\angle R$ is

(A) 90^o (B) 240^o

(C) 120^o (D) 60^o

18. The product 60 × 60 × 24 × 7 equals

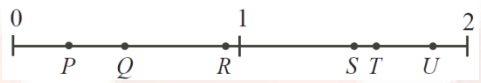
(A) The number of minutes in Nine weeks.

(B) The number of hours in Fourty days.

(C) The number of seconds in Nine hours.

(D) The number of seconds in one week.

19. Which of the points positioned on the number line best represents the value of S ÷T?



(A) S (B) U

(C) R (D) P

20. The product of three different positive integers is 144. What is the maximum possible sum of these three integers?

(A) 144 (B) 75

(C) 72 (D) 57

21. A square has an area of 25. A rectangle has the same width as the square. The length of the rectangle is double its width. What is the area of the rectangle?

(A) 75 (B) 100

(C) 150 (D) 50

22. Which is arranged in the sequence from largest to smallest?

(A) 4356, 4567, 4873, 5923

(B) 5775, 5757, 5557, 5373

(C) 3546, 3645, 3744, 3843

(D) None of these

23. Vanessa set a school record for most points in a single basketball game when her team scored 48 points. The six other players on her team averaged 3.5 points each. How many points did Vanessa score to set her school record?

(A) 35 (B) 30

(C) 37 (D) 27

24. The value of $(4 \times 3) + 2$ is

(A) 9 (B) 5

(C) 14 (D) 6

25. The number of centimetres in 3.5 metres is

(A) 350 (B) 355

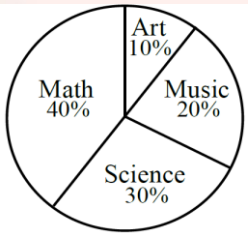
(C) 3:50 (D) 305

26. Hannah scored 312 points during the basketball season. If her average (mean) was 13 points per game, how many games did she play?

(A) 24 (B) 312

(C) 13 (D) 12

27. At Gaussville School, a total of 480 students voted for their favourite subject. The results are sumarized in the pie chart shown. How many students voted for math?



(A) 190 (B) 192

(C) 100 (D) 182

28. A piece of paper is folded in half, creating two layers of paper. The paper is then folded in half again. This is continued until the paper has been folded in half a total of five times. The total number of layers of paper in the folded sheet is

(A) 64 (B) 32

(C) 128 (D) 16

29. The value of $4 \times 5 + 5 \times 4$ is

(A) 400 (B) 80

(C) 160 (D) 40

30. $\frac{1}{3}+\frac{1}{3}+\frac{1}{3}+\frac{1}{3}+\frac{1}{3}+\frac{1}{3}+\frac{1}{3}$ equals

(A) $3\frac{1}{3}$

(B) $7+\frac{1}{3}$

(C) $\frac{3}{7}$

(D) $7-\frac{1}{3}$

ANSWERS & SOLUTIONS

1. A

The day on which Tanner received the most text messages will be the day with the tallest corresponding bar.

Thus, Tanner received the most text messages on Friday.

2. C

A number is a multiple of 7 if it is the result of multiplying 7 by an integer. Of the answers given, only 77 results from multiplying 7 by an integer, since $77 = 7 \times 11$.

3. C

4. A

   The measure of the three angles in any triangle add to 18^o. Since two of the angles measure $25^o$and 70^o then the third angle in the triangle measures $180^o - 25^o - 70^o = 85^o$. The measure of the third angle in the triangle is 85^o.

5. D

6. D

   Travelling at a constant speed of 85 km/h, the entire 510km trip would take Carrie $510 \div 85 = 6$ hours. Since Carrie is halfway through the 510km trip, then the remainder of the trip will take her half of the total trip time or $6 \div 2 = 3$ hours.

7. B

8. D

   Calculating, $(8 \times 4) + 3 = 32 + 3 = 35$.

9. B

10. C

    Since the left edge of the block is at the "3" on the ruler and the right edge of the block is between the "5" and "6", then the length of the block is between 2 and 3. Looking at the possible choices, the only choice between 2 and 3 is (C) or 2.4 cm.

    (Looking again at the figure, the block appears to end roughly halfway between the "5" and the "6", so 2.4 cm is reasonable.)

11. D

Calculating, 1 + 0.01 + 0.0001 = 1.01 + 0.0001 = 1.0100 + 0.0001 = 1.0101.

12. D

Using a common denominator of 8, we have $\frac{1}{2}+\frac{1}{4}+\frac{1}{8}=\frac{4}{8}+\frac{2}{8}+\frac{1}{8}=\frac{7}{8}$.

13. D

Since the polygon has perimeter 108 cm and each side has length 12 cm, then the polygon has 108 ÷ 12 = 9 sides.

14. B

15. A

Adding, 4:1 + 1:05 + 2:005 = 5:15 + 2:005 = 7:155.

16. A

Since a real distance of 60 km is represented by 1 cm on the map, then a real distance of 540 km is represented by $\frac{540}{60}$ cm or 9 cm on the map.

17. C

The sum of the three angles in any triangle is always 180º. In ΔPQR, the sum of ∠P and ∠Q is 60º, and thus ∠R must measure 180º–60º= 120º.

18. D

There are 60 seconds in a minute, 60 minutes in an hour, 24 hours in a day and 7 days in a week. Therefore, the number of seconds in one week is 60 × 60 × 24 × 7.

19. C

S is slightly less than T, so $\frac{S}{T}$ is slightly less than 1. Thus, $\frac{S}{T}$ is best represented by R.

20. B

21. D

The rectangle has the same width as the square but twice the length. Thus, the rectangle's area is twice that of the square or $2 \times 25 = 50$.

22. B

23. D

The six other players on the team averaged 3.5 points each. The total of their points was $6 \times 3:5 = 21$. Vanessa scored the remainder of the points, or$48 – 21 = 27$ points.

24. C

Evaluating, $(4 \times 3) + 2 = 12 + 2 = 14$.

25. A

There are 100 centimetres in 1 metre. Therefore, there are $3:5 \times 100 = 350$ cm in 3.5 metres.

26. A

The average (mean) number of points scored per game multiplied by the number of games played is equal to the total number of points scored during the season. Therefore, the number of games that Hannah played is equal to the total number of points she scored during the season divided by her average (mean) number

of points scored per game, or 312 ÷13 = 24.

27. B

At Gaussville School, 40% or 0.4 of the 480 total students voted for math.

Therefore, the number of students who voted for math is 0:4 × 480 = 192.

28. B

29. D

Using the correct order of operations, 4 × 5 + 5 × 4 = 20 + 20 = 40.

30. D

Since we are adding 1/3seven times, then the result is equal to.