Add 457 364 to 75 396.
A 532 760
B 532 750
C 522 760
D 522 750

In Roman numerals, 75 is the same as ...
A LXXIII.
B LXXV.
C XXXXXXXV.
D XXVCC.

Prime factors of 24 are ...
A 2 and 3.
B 2 and 4.
C 3 and 6.
D 3 and 8.

723 942 – 351 671 =
A 472 371
B 472 271
C 372 371
D 372 271

The diagram below shows sets A and B.

List the set A ∪ B.
A \{Neli\}
B \{Faith, Phillips\}
C \{Peter, Vera, Chipo\}
D \{Neli, Faith, Phillips, Peter, Vera, Chipo\}

Mrs Kongole bought 260 bananas. If she sold 102 bananas, how many bananas were not sold?
A 148
B 152
C 158
D 185
7 Mr Kasoka bought 25.75 metres of wire. He cut off 12.25 metres so that he could fence his garden. How many metres of wire remained?
   A  38.70 metres 
   B  38.01 metres 
   C  37.90 metres 
   D  13.50 metres 

8 The table below shows the favourite fruits of learners in a class.

<table>
<thead>
<tr>
<th>Fruits</th>
<th>Bananas</th>
<th>Oranges</th>
<th>Lemons</th>
<th>Guavas</th>
</tr>
</thead>
<tbody>
<tr>
<td>Frequency</td>
<td>11</td>
<td>10</td>
<td>5</td>
<td>14</td>
</tr>
</tbody>
</table>

Which fruit is liked most?
   A  Orange 
   B  Lemon 
   C  Guava 
   D  Banana 

9 If 10 is added to $x$ and the result is 32, what is the value of $x$?
   A  320 
   B  42 
   C  32 
   D  22 

10 Express the ratio $8 : 16 : 32$ in its lowest terms.
   A  1: 2: 4 
   B  1: 2: 3 
   C  1: 2: 2 
   D  1 : 2: 1 

11 If a construction company sells a house at $100 000, how much will 4 houses of the same type cost?
   A  $25 000 
   B  $99 996 
   C  $100 004 
   D  $400 000 

12 The Venn diagram below shows favourite colours for learners in class A and class B.

The set $A \cap B$ is ...
   A  {Blue, Green, Red, Yellow}.
   B  {Green, Yellow}.
   C  {Blue, Green}.
   D  {Blue, Red}.
13 \[61.111 + 200.3 + 0.004 =\]
A 261.415
B 261.118
C 63.415
D 63.118

14 \[2.58 \times 2.4\]
A 5.162
B 5.192
C 6.162
D 6.192

15 What is the next number in the sequence below?
400, 200, 100 …
A 90
B 80
C 60
D 50

16 Look at the diagram below.

[Diagram of a rhombus with arrows indicating sides]

The line parallel to AB is …
A AD.
B BC.
C DC.
D AC.

17 \[286 \div 12 =\]
A 23 remainder 10
B 23 remainder 6
C 23 remainder 5
D 23 remainder 4

18 The mass of a bag of rice was 25.46kg. This mass expressed to 1 decimal place is …
A 26.0kg.
B 25.5kg.
C 25.4kg.
D 25.0kg.
19  Convert 38 to a number in base five.
   A  123<sub>five</sub>
   B  213<sub>five</sub>
   C  231<sub>five</sub>
   D  301<sub>five</sub>

20  A piece of land was bought at K32 000.00 and sold at K16 000.00. Calculate the loss.
   A  K2 000.00
   B  K16 000.00
   C  K32 000.00
   D  K48 000.00

21  Arrange the numerals VI, X, XV, IX in order from the smallest to the largest.
   A  XV, X, IX, VI
   B  IX, VI, X, XV
   C  VI, IX, X, XV
   D  X, VI, IX, XV

22  The angle marked x below is ...

A  an acute angle.
B  an obtuse angle.
C  a right angle.
D  a reflex angle.

23  If 9 books cost K54.00, how many books of the same type will cost K96.00?
   A  36
   B  16
   C  14
   D  12

24  Convert 0.007 to a common fraction.
   A  \(\frac{7}{10}\)
   B  \(\frac{7}{100}\)
   C  \(\frac{7}{1000}\)
   D  \(\frac{7}{10000}\)
19 Convert 38 to a number in base five.
A \(123_{\text{five}}\)
B \(213_{\text{five}}\)
C \(231_{\text{five}}\)
D \(301_{\text{five}}\)

20 A piece of land was bought at K32 000.00 and sold at K16 000.00. Calculate the loss.
A K2 000.00
B K16 000.00
C K32 000.00
D K48 000.00

21 Arrange the numerals VI, X, XV, IX in order from the smallest to the largest.
A XV, X, IX, VI
B IX, VI, X, XV
C VI, IX, X, XV
D X, VI, IX, XV

22 The angle marked \(\angle\) below is …

A an acute angle.
B an obtuse angle.
C a right angle.
D a reflex angle.

23 If 9 books cost K54.00, how many books of the same type will cost K96.00?
A 36
B 16
C 14
D 12

24 Convert 0.007 to a common fraction.
A \(\frac{7}{10}\)
B \(\frac{7}{100}\)
C \(\frac{7}{1000}\)
D \(\frac{7}{10000}\)
31 How many lines of symmetry does the shape below have?

A 0
B 1
C 2
D 4

32 Divide \( \frac{1}{9} \) by \( \frac{7}{18} \).

A \( \frac{3}{7} \)
B \( \frac{8}{27} \)
C \( \frac{2}{7} \)
D \( \frac{18}{63} \)

33 If 54 oranges are shared among Peter, Joshua and Moses in the ratio 2 : 3 : 4, how many oranges will Joshua get?

A 12
B 18
C 24
D 27

34 Express 18 as a product of its prime factors.

A \( 1 \times 2 \times 3 \times 3 \)
B \( 2 \times 3 \times 3 \times 3 \)
C \( 2 \times 9 \)
D \( 3 \times 6 \)

35 Express \( \frac{3}{8} \) as a decimal.

A 0.360
B 0.365
C 0.370
D 0.375

36 Which of the following statements is true about an isosceles triangle?

A All angles are equal.
B All sides are equal.
C Two angles are equal.
D Two sides are not equal.
25 \( (250 \times 4) + 5 = \)
A 2000
B 500
C 200
D 50

26 Find the Lowest Common Multiple of 6, 12 and 18.
A 36
B 29
C 18
D 12

27 Which one of the following is a net of a cuboid?

A 1
B 2
C 3
D 4

28 Mr Zumani got a loan of K5 000.00 at the rate of 8% per annum for 10 years. Find the interest he paid.
A K400 000.00
B K40 000.00
C K4 000.00
D K400.00

29 Round off 48 573 to the nearest 1000.
A 48 000
B 48 570
C 48 600
D 49 000

30 13 boys shared 104 fruits equally. How many fruits did each boy get?
A 8
B 18
C 91
D 117
37. The average mass of 4 children is 20kg. What is their total mass?
   A  5kg
   B  16kg
   C  24kg
   D  80kg

38. The diagram below is a cuboid of length 10cm, breadth 4cm and height 6cm.

   ![Cuboid Diagram]

   Calculate the total length of its edges.
   A  70cm
   B  80cm
   C  90cm
   D  100cm

39. \( \frac{7}{13} \times 65 = \)
   A  5
   B  35
   C  42
   D  455

40. How many pieces of string each measuring \(2\frac{1}{2}\) metres can be cut from a string of length 20 metres?
   A  8
   B  18 \(\frac{1}{2}\)
   C  22 \(\frac{1}{2}\)
   D  50

41. Find 30% of 320.
   A  9600
   B  350
   C  106
   D  96

42. Convert \(\frac{17}{20}\) to a percentage.
   A  85%
   B  80%
   C  68%
   D  60%
43. Hamasumo got 28 out of 40 marks in a test, express the marks he got as a percentage.
   A  40%
   B  50%
   C  60%
   D  70%

44. \[ \frac{2}{5} + \frac{1}{4} = \]
   A  \[ \frac{3}{20} \]
   B  \[ \frac{3}{20} \]
   C  \[ \frac{8}{20} \]
   D  \[ \frac{5}{20} \]

45. Change 72\text{eighth} to base ten.
   A  72\text{ten}
   B  70\text{ten}
   C  58\text{ten}
   D  54\text{ten}

46. Order the integers below from the largest to the smallest.
   +5, 0, −10, +2, −8
   A  +5, +2, 0, −8, −10
   B  −10, +5, 0, +2, −8
   C  +5, +2, 0, −10, −8
   D  −10, −8, +5, +2, 0

47. Find \( y \), given that \( 3 + 2y \geq 11 \).
   A  \( y \geq 7 \)
   B  \( y > 4 \)
   C  \( y \leq 7 \)
   D  \( y \leq 4 \)

48. A motorist travelled a distance of 150km in \( 2 \frac{1}{2} \) hours. Calculate his speed.
   A  375km/h
   B  80km/h
   C  60km/h
   D  30km/h

49. \( 2 \times 2 \times 2 \times 2 \times 2 \) can also be written as …
   A  \( 2^5 \)
   B  \( 5^2 \)
   C  \( 5 \times 2 \)
   D  \( 2 \times 5 \)
50 Arrange the following fractions from the biggest to the smallest:
\[
\begin{align*}
\frac{1}{5} & \quad \frac{1}{3} & \quad \frac{7}{3} & \quad \frac{8}{5} \\
A & \quad \frac{8}{5} & \quad \frac{7}{3} & \quad \frac{1}{3} & \quad \frac{1}{5} \\
B & \quad \frac{1}{5} & \quad \frac{8}{3} & \quad \frac{7}{5} \\
C & \quad \frac{7}{3} & \quad \frac{8}{5} & \quad \frac{1}{3} & \quad \frac{1}{5} \\
D & \quad \frac{8}{5} & \quad \frac{1}{3} & \quad \frac{7}{3} & \quad \frac{1}{5}
\end{align*}
\]

51 Which of the following statements is correct?
A \quad +1 < -2
B \quad -1 > -4
C \quad +5 < -6
D \quad -3 > +2

52 \frac{3}{3} = 1_{\text{five}}
\frac{3}{4} = 1_{\text{five}}
\frac{1}{5}
\frac{2}{5}
\frac{4}{5}
\frac{4}{5}
\frac{2}{5}
\frac{1}{5}
\frac{3}{5}
\frac{4}{5}
\frac{5}{5}

A \quad 4202_{\text{five}}
B \quad 3652_{\text{five}}
C \quad 2970_{\text{five}}
D \quad 2420_{\text{five}}

53 Calculate the total surface area of the cuboid shown below.

\[
\begin{align*}
\text{Length} & = 10 \text{cm} \\
\text{Width} & = 8 \text{cm} \\
\text{Height} & = 5 \text{cm}
\end{align*}
\]

A \quad 400 \text{cm}^2
B \quad 340 \text{cm}^2
C \quad 85 \text{cm}^2
D \quad 80 \text{cm}^2
Calculate the area of the Circle shown below. [Take $\pi = 3.14$]

![Circle diagram](image)

- A 9.42cm
- B 18.84cm
- C 27.26cm
- D 28.26cm

55 A book costing K20.00 is sold at K15.00. Find the percentage loss.

- A 35%
- B 30%
- C 25%
- D 5%

56 Find the median of 4, 10, 7, 3 and 6.

- A 6
- B 7
- C 10
- D 30

57 The mapping shown in the diagram below is a ...

![Mapping diagram](image)

- A one-to-one mapping.
- B one-to-many mapping.
- C many-to-one mapping.
- D many-to-many mapping.

58 Evaluate $3^4$.

- A 81
- B 64
- C 12
- D 7

59 Find the number of subsets of set $A = \{a, e, i, o, u\}$.

- A 5
- B 10
- C 25
- D 32
Find the area of the triangle given below.

![Triangle diagram with sides 10cm and 38cm]

A 380 cm²
B 190 cm²
C 48 cm²
D 24 cm²

STOP! PLEASE CHECK ALL YOUR WORK CAREFULLY

G7/Mathematics/2016