THE STUDENT HUB

Worksheet 1 – Computation and Numeration

Session 1 **Total: 65 marks**

1. The highest common factor of 2, 8 and 16 is [1]
   (A) 2
   (B) 16
   (C) 32
   (D) 64

2. Three bulbs, A, B and C, are connected at the same time. If bulbs A lights every 4 seconds, B every 3 seconds and C every 6 seconds. How many seconds must elapse before all bulbs light at the same time? [1]
   (A) 12 seconds
   (B) 13 seconds
   (C) 18 seconds
   (D) 72 seconds

3. A certain number, less **9**, is equal to the product of **5 and 8**. What is the number? [1]
   (A) 22
   (B) 49
   (C) 31
   (D) 40

4. A sum of two numbers is 3458. If one of the numbers is 1567, what is the other number? [1]
   (A) 1891
   (B) 2111
   (C) 2291
   (D) 5025

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5. A cartoon of eggs holds 1 dozen eggs. How many cartoons of eggs are needed to pack **100** eggs? [1]

   (A) 7

   (B) 8

   (C) 9

   (D) 12

6. Write in words: [1]

Hundreds of Thousands	Tens of Thousands	Thousand	Hundred	Tens	Ones
1	1	0	2	0	5

Answer_____

7. Multiply 312 by 6. [1]

Answer_____

8. Approximate 71 461 to the nearest HUNDRED. [1]

Answer_____

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9. $6^2 \div 2 = 9 \times \square$ [1]

10. Insert ONE of the following symbols in the box below to make the statement correct. [1]

$>$ $=$ $<$

0.76 $\square$ 0.67

11. Write the missing number in the box below to make the statement correct. [1]

$(18 \times 5) + (18 \times 8) = 18 \times \square$

12. Divide 1064 by 8. [1]

Answer_____

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13. Write in figures:

Ninety-three thousand and seven. [1]

Answer_____

14. The number 146.45 is doubled. What is the new number? [1]

Answer_____

15. Write a whole number in the box below to make the statement true. [1]

$6\,345 - \square < 5\,026$

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16. Circle the number that is NOT a prime number. [1]

19 73 91 13

17. Write down the value of the underlined digit in the place value chart below. [1]

Hundreds of Thousands	Tens of Thousands	Thousand	Hundred	Tens	Ones
8	<u>5</u>	2	1	9	0

Answer_____

18. Add 2.49 and 5.65 [1]

Answer_____

19. Write 257 014 in expanded notation. [1]

Answer_____

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20. Calculate $29.4 \div 7$. [1]

Answer_____

21. Arrange the following numbers in **ASCENDING** order. [1]

2078 2708 2807 2087

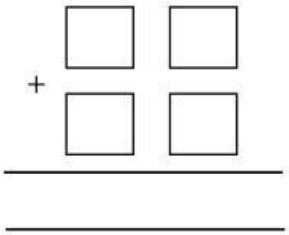
Answer_____

22. Calculate 2.98×0.07 [1]

Answer_____

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23. Write the digits 2 4 6 8 in the squares below to create an addition problem with the **smallest** sum. [1]



24. On Saturday, Mark solved 30 math problems. He solved four times as many problems on Sunday as he did on Saturday. How many more problems did Mark solve on Sunday than on Saturday?

[1]

Answer_____ problems

25. Arrange these numbers in DESCENDING order. [1]

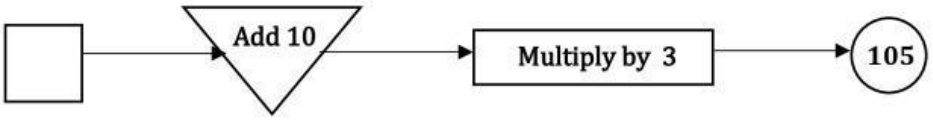
7015 7510 7150 7051

Answer_____

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26. What number must be placed in the box to give the result shown? [1]



Answer_____

27. Write the next term in the sequence. [1]

1, 12, 23, 34, _____

28. Subtract 5.76 from 9.20 [1]

Answer_____

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29. A pizza restaurant baked 184 pizzas, and they need to distribute them equally among 8 delivery drivers. How many pizzas will each delivery driver receive? [1]

Answer_____ pizzas

30. Every sixth customer entering the amusement park was given a discount. The 129th person entered the amusement park. How many **more** persons must enter the amusement park for the next discount to be given? [2]

Answer_____ persons

31. Write the missing terms in the sequence below. [2]

$\sqrt{121} + 4$, $\sqrt{100} + 8$, _____, $\sqrt{64} + 16$, _____

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32. The seats in an auditorium are numbered in sequence from 1 to 224. There are 8 seats in each row.

(a) How many rows are there in the auditorium? [1]

Answer_____ rows

(b) In which row can the seat numbered 85 be found? [1]

Answer_____ row

33. Fiona bakes pastries over a period of 6 days. The number of pastries made follows a pattern as shown in the table below. The number of pastries read on Day 1 and Day 2 are **not** shown.

Day	1	2	3	4	5	6
Number of pastries made			36	41	47	54

How many pastries were made altogether for the 6 days? [2]

Answer_____ pastries

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34. Write the missing digit in each box below. [2]

$$\begin{array}{r} 6\ \square\ 3\ 2 \\ -\ 1\ 5\ 3\ 5 \\ \hline 3\ 8\ 9\ \square \\ \hline \end{array}$$

35. A jar contains chocolate and candies. For every 3 chocolates placed into the jar, 6 candies are included. If there is a total of 63 items in the jar, how many of them are candies? [2]

Answer_____ candies

36. Write the correct number in each shape below to complete the number sentences. [2]

$299 \times 50 = (299 + \bigcirc) \times 50 - 50$

$299 \times 50 = \square \times 50 - 50$

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37. Derek collects one coin each week. The current number of coins in his collection is a factor of 60. Two weeks ago, the number of coins in his collection was a multiple of 9. How many coins does Derek have now? [2]

Answer_____ coins

38. Ria and Kelly estimated the answer to the following problem. [2]

80×27

Ria's Estimate
1600

Kelly's Estimate
2400

Explain who had the better estimate and how it was calculated.

Answer_____

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39. Joseph is keeping track of the number of push-ups he does each day for a week. The number of push-ups follows a pattern as shown in the table below. The values for Day 6 and Day 7 are **not** shown.

Day	1	2	3	4	5	6	7
Number of push-ups	30	38	46	54	62		

How many push-ups did Joseph complete for the week? [2]

Answer_____ push-ups

40. The square root of a number is 13 more than the difference of 26 and 18.
What is the number? [2]

Answer_____

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41. Write the correct number in each shape below to complete the number sentences. [2]

$69 \times 25 = (67 + \bigcirc) \times 25 + 25$

$69 \times 25 = \square \times 25 + 25$

42. In a library, one of the bookcases has 15 shelves where each shelf can hold 12 books. The first 8 shelves were completely occupied while there were 4 books in the 9th shelf. How many books can be placed in the remaining space of the bookcase? [2]

Answer_____ books

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43. In preparation for the upcoming Student Hub excursion twelve 18-seater buses were hired to transport the Standard 5 students. Mr Springer then decided to include the Standard 4 class.

How many **more** buses will he need to hire to transport a combined total of 315 students?

[2]

Answer_____ buses

44. Four digits are shown below.

4	3	8	6

Using EACH digit only ONCE, write the

(a) SMALLEST four-digit number [1]

Answer_____

(b) LARGEST four-digit even number [1]

Answer_____

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