

1. Which number represents 23 million 6 hundred thousand?

- a) 23 600 000    b) 23 000 000 600 000    c) 2 360 000 000    d) 23 060 000

2. Which situation is best represented by the integer -14?

- a) fourteen degrees above zero  
 b) depositing \$14 in your bank account  
 c) staying on the fourteenth floor of a hotel  
 d) fourteen metres below sea level

2 3 6 0 0    0 0 0

→ divisible by 1 and itself

3. Which set of numbers are all prime numbers?

- a) 13, 15, 19, 21, 51    b) 9, 13, 15, 17, 19    c) 2, 5, 7, 9, 11    d) 3, 7, 13, 29, 31

↓  
3x5

↓  
3x5

↓  
3x3

4. Find the value of the expression  $3 + 18 \div 3 + 5 \times 2$

- a) 19    b) 22    c) 24    d) 28

19

$$\begin{aligned}
 &3 + 18 \div 3 + 5 \times 2 \\
 &3 + 6 + 5 \times 2 \\
 &3 + 6 + 10 \\
 &9 + 10 \\
 &19
 \end{aligned}$$

5. Which number can be read as "4 and 21 hundred-thousandths"?

- a) 4.002 1    b) 4.000 21    c) 4.021    d) 4.000 021

4.00021

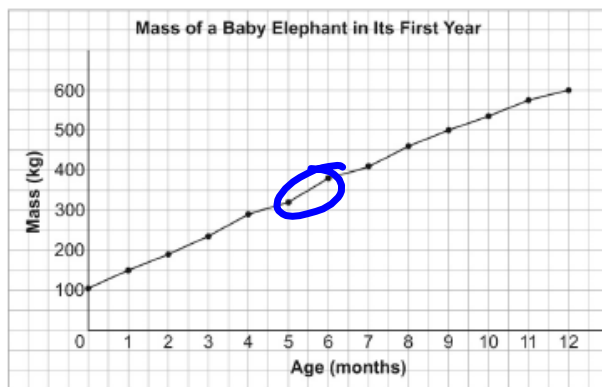
6. Which product is correct?

- a)  $6.23 \times 5 = 3.115$     b)  $49.7 \times 7 = 347.9$     c)  $13.7 \times 9 = 12.33$     d)  $8 \times 0.79 = 0.632$
- $6 \times 5 = 30$      $50 \times 7 = 350$

7. Which number represents 66 millionths?

- a) 0.000 000 66    b) 0.000 006 6    c) 0.000 66    d) 0.000 066
- 0.000066

8. Between which two months did the baby elephant gain the most mass?



- a) 0 and 1 month b) 4 and 5 months c) 5 and 6 months d) 11 and 12 months  
100 150 300 310 390  
50 kg 10 kg 310 80 kg 580 600  
20 kg

9. What expression shows the relationship between input and output?

Input	Output
1	7
2	10
3	13
4	16
5	19

- a)  $n + 3$  b)  $3n$  c)  $5n + 2$  d)  $3n + 4$

$3n + 4$   
 $3(1)$   
 $3 \quad ? = 7$

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- a)  $n + 3$       b)  $3n$       c)  $5n + 2$       d)  $3n + 4$

10. Which number is the greatest?

- a) 3 million 2 hundred thousand      **b) 3.2 billion**      c) 500 000      d) 796 000 000

11. Using whole number benchmarks, what is the best estimate for the product of  $6.83 \times 5$ ?

- a) 30       **$7 \times 5 = 35$**       **c) 35**      d) 40

12. Which number is the least?

- a) 0.000 473**      b) 62 ten thousandths      ~~c) 1 and 1 millionth~~      d) 0.001 40

**0.000473      0.0062      0.00140**



Kim and her parents went camping and brought along Baxter, their family pet. While they were putting up their tent, Baxter wandered away and got lost.

Kim and her parents asked other campers to help look for Baxter and many people joined in on the search as the day continued.

Minutes of searching	10	20	30	40	50	60
Number of people	3	7	15	31	63	?

$$\begin{array}{r} 63 \\ + 64 \\ \hline 127 \end{array}$$

If the pattern above continues, how many people will be searching after 60 minutes?

+4, +6, +8, +10, +12, +14, +16, +18, +20, +22, +24, +26, +28, +30, +32, +34, +36, +38, +40, +42, +44, +46, +48, +50, +52, +54, +56, +58, +60, +62, +64  
doubl.

- a) 94
- b) 95
- c) 127**
- d) 130

14. Which set of numbers are all multiples of six?

- a) 18, 24, 42, 60**  
6x3 6x4 6x7 6x10
- b) 6, 16, 26, 36
- c) 12, 24, 28, 30
- d) 6, 12, 20, 26

15. Which of these numbers has the most factors?

- a) 8  
1x8  
2x4
- b) 12**  
1x12  
2x6  
3x4
- c) 25  
1x25  
5x5
- d) 27  
1x27  
3x9

16. Five friends went to the bottle exchange and received \$121.72. They shared the money equally. Which is the best estimate for each person's share?

- a) less than \$20    b) a little over \$25    **c) a little under \$25**    d) over \$30

17. How many hundred thousands are in 1 000 000 000?

- a) 0    b) 1000    **c) 10 000**    d) 100 000

$$1\ 000\ 000\ 000 \div 100\ 000 = 10\ 000$$

$$\begin{array}{r} \approx \\ 5 \overline{) 120} \\ \underline{-10} \phantom{0} \\ 20 \\ \underline{-20} \\ 0 \end{array}$$

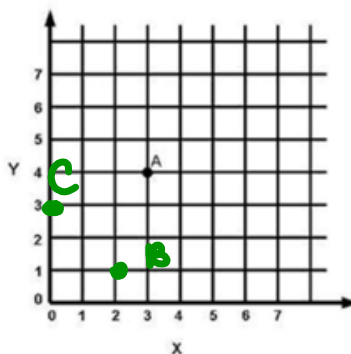
Constructed Response

18. What are the coordinates of Point A?

(3, 4)

19. Plot and label these points on the grid to the right.

Point B (2, 1) and Point C (0, 3)



20. A skateboard park charges a registration fee of \$10.00. They also give private lessons at a cost of \$25.00 each. Complete the table of values.

Lessons	Cost
0	\$10
1	\$35
2	\$60
3	\$85
4	\$110

+16 ↘ +25 ↘

21. What is the pattern rule for the cost of the lessons?

As the lessons increase by 1, the cost increases by \$25

22)  $25n + 10$

23)  $25(12) + 10$

↓ double ↓ half

$50 \times 6 + 10$

$300 + 10$

$310$

24)  $16 - 14 \div 2$

$16 - 7$

$= 9$

22. Write an algebraic expression to represent the relationship between the number of lessons and the cost of the lessons.

\_\_\_\_\_

23. How much would it cost you to join the park and take 12 lessons?

\_\_\_\_\_

24. Evaluate:  $16 - 14 \div 2$

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25. Use any strategy you wish to multiply  $7.75 \times 3$



26. Put the following integers in order from least to greatest.

+4, 0, -2, +7, -5     -5, -2, 0, 4, 7

27.

Number of People	Number of Cups
1	5
2	7
3	9
4	11

2n check  
 $n=1$   
 $2(1) + ? = 5$   
 $2 + \boxed{3}$   
 $2n + 3$

How many people would be present if 21 cups were required?     9

28. Use any strategy you wish to divide  $0.375 \div 5$

5  $\overline{) 0.375}$   
 0.075  
 35  
 —  
 25  
 -25  
 —  
 0

5  
6  
7  
8  
9  
13  
15  
17  
19  
21