Mental Math and Number Sense

Choose one answer per question. Circle A, B, C, or D.

1. A scoreboard reads 4,086. What value does the digit 8 have?
   A. 80
   B. 8
   C. 800
   D. 8,000

2. A team earns 28 points in one round and 37 in the next. What is its total?
   A. 64
   B. 55
   C. 65
   D. 75

3. Which number rounds to 470 to the nearest ten?
   A. 462
   B. 468
   C. 475.9
   D. 476

4. How many complete packs of 8 cards can you fill with 72 cards?
   A. 11
   B. 8
   C. 10
   D. 9

5. Which number is greater than 3.07 but less than 3.2?
   A. 3.007
   B. 3.15
   C. 3.7
   D. 3.25

6. A scorekeeper calculates $18 - 3 \times 4$. What is the result under standard order of operations?
   A. 6
   B. 60
   C. 48
   D. 30

7. A carton holds 36 tickets. How many tickets are in seven cartons and one half-full carton?

A. 288
B. 252
C. 260
D. 270

8. A backpack costs $42. What price appears after a 10% discount, before tax?

A. $38.20
B. $32.00
C. $37.80
D. $41.58

9. One shop sells 6 notebooks for $9. Another sells 8 for $11.20. How much cheaper per notebook is the second shop?

A. $0.10
B. $0.20
C. $0.40
D. $0.60

10. A charity raised $360 last week and $450 this week. By what percentage did its weekly total rise?

A. 125%
B. 20%
C. 80%
D. 25%

11. Two numbers have a sum of 94. The larger exceeds the smaller by 18. What is the larger number?

A. 52
B. 47
C. 56
D. 62

12. A store marks $80 down by 25% and then gives 10% off the reduced price. What is the final price before tax?

A. $52
B. $54
C. $55
D. $58

13. A group earns 24, 31 and 34 points in three rounds. What fourth-round score gives a mean of 32?

A. 41
B. 32
C. 37
D. 39

14. A class has 30 students. On Monday, 80% attend. On Tuesday, half as many students are absent as on Monday. How many attend Tuesday?

A. 27
B. 24
C. 25
D. 28

15. A team has 96 credits. It uses 25% of them, then earns 18 more credits. Each new entry costs 12 credits. After buying as many entries as possible, how many credits remain?

A. 8
B. 0
C. 6
D. 10