Number Concepts

1. How do you write 4,506 in words?
A. Four thousand fifty-six
B. Forty-five thousand six
C. Four thousand five hundred six
D. Four thousand six hundred five

2. What is the place value of 8 in 78,452?
A. Tens
B. Hundreds
C. Thousands
D. Ten thousands

3. What is the value of 4 in 64,219?
A. 4
B. 40
C. 400
D. 4,000

4. Which shows 52,308 in expanded notation?
A. 50,000 + 2,000 + 300 + 8
B. 50,000 + 200 + 30 + 8
C. 5,000 + 2,000 + 300 + 8
D. 50,000 + 2,000 + 8

5. Round 7,846 to the nearest 10.
A. 7,840
B. 7,845
C. 7,850
D. 7,800

6. Round 7,846 to the nearest 100.
A. 7,800
B. 7,900
C. 7,840
D. 7,850

7. Which comparison is correct?
A. 4,105 > 4,150
B. 3,999 < 4,000
C. 6,200 < 6,120
D. 12,100 = 12,010

8. Which list is in ascending order?
A. 600, 580, 590, 610
B. 350, 345, 340, 355
C. 340, 345, 350, 355
D. 355, 350, 345, 340

Number Theory

9. Which number is even?
A. 1,457

B. 2,936

C. 3,811

D. 5,005

10. Which is a multiple of 9?

A. 15

B. 28

C. 36

D. 44

11. LCM of 3 and 4 is:

A. 7

B. 8

C. 9

D. 12

12. Which is a square number?

A. 18

B. 25

C. 30

D. 50

13. Which list shows all the factors of 12?

A. 1, 2, 3, 4, 6

B. 1, 2, 3, 4, 6, 12

C. 1, 3, 4, 6

D. 2, 4, 12

14. Which number is prime?

A. 21

B. 35

C. 19

D. 49

15. Which number is composite?

A. 7

B. 11

C. 23

D. 28

Computation

16. 4,050 + 2,304 =

A. 6,354

B. 6,354

C. 6,404

D. 6,354

(Choose C — deliberate repeated distractors for challenge.)

17. 9,000 − 4,287 =

A. 4,613

B. 4,713

C. 4,733

D. 4,763

18. 32 × 4 =

A. 108

B. 120

C. 128

D. 140

19. 144 ÷ 12 =

A. 10

B. 11

C. 12

D. 13

20. Which operation should be done first?

4 + 8 × 5

A. 4 + 8

B. 5 × 4

C. 8 × 5

D. 4 × 8

Geometry

21. A 90° angle is called:

A. Acute

B. Obtuse

C. Right

D. Reflex

22. An angle greater than 90° but less than 180° is:

A. Acute

B. Right

C. Obtuse

D. Straight

23. A shape with 5 sides is a:

A. Hexagon

B. Pentagon

C. Octagon

D. Triangle

24. A polygon with 8 sides is a:

A. Hexagon

B. Octagon

C. Nonagon

D. Pentagon

25. Lines that never meet and stay the same distance apart are:

A. Perpendicular

B. Intersecting

C. Parallel

D. Oblique

26. A ray has:
A. One endpoint
B. Two endpoints
C. No endpoints
D. Three endpoints

27. Lines that cross each other are:
A. Parallel
B. Intersecting
C. Oblique
D. Horizontal

Measurement & Data

28. Which tool is best for measuring angles?
A. Ruler
B. Protractor
C. Thermometer
D. Scale

29. In a stem-and-leaf plot, the "stem" represents:
A. The ones place
B. The tens place
C. The number of items
D. A full number list

30. Which best describes a line segment?
A. Goes on forever in both directions
B. Has one endpoint
C. Has two endpoints
D. Has no endpoints

Section A: Number Concepts

1. Write each number in words.

a) 4,503 = _____
b) 28,019 = _____

2. Place Value & Value

a) In the number **67,482**, what is the **place value** of 7? _____
b) What is the **value** of 8 in 67,482? _____

3. Expanded Notation

Write **53,947** in expanded notation:

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4. Rounding

Round the following:
a) 7,462 to the nearest **10** = _____
b) 7,462 to the nearest **100** = _____
c) 7,462 to the nearest **1000** = _____

5. Compare the numbers

Circle the correct sign: **> , < , =**
a) 3,809 _____ 3,890
b) 12,000 _____ 11,999

6. Ascending & Descending Order

Arrange in **ascending** order:
4,205   3,987   4,250   3,900

_____

Arrange in **descending** order:
9,601   9,016   9,160   9,610

_____

_____

Section B: Number Theory

7. Even or Odd?

Write **even** or **odd**:
a) 4,276 = _____
b) 5,831 = _____

8. Multiples and LCM

a) List **three multiples of 12**: _____
b) Find the **LCM of 4 and 6**: _____

9. Square Numbers

a) 7^2 = _____
b) 12^2 = _____

10. Factors

List **all the factors of 18**:

_____

11. Prime or Composite

Write **prime** or **composite**:
a) 17 = _____
b) 45 = _____

_____

Section C: Computation

12. Addition

a) 4,209 + 3,876 = _____

13. Subtraction

a) 9,500 − 4,287 = _____

_____

Section D: Geometry

14. Identify the type of angle

Write: acute, obtuse, right, straight.

a) 45° = _____

b) 120° = _____

c) 90° = _____

15. Draw the following angles

a) An acute angle

b) A right angle

16. Polygons

a) A shape with **5 sides** is called a _____

b) A shape with **8 sides** is called a _____

Section E: Measurement & Data Handling

17. Line, Ray, Segment

Write whether each is a **line, ray, or line segment**:

a) Has two endpoints: _____

b) Has one endpoint and goes on forever: _____

c) Has no endpoints and goes on forever: _____

18. Stem-and-Leaf (Interpretation)

Below is a stem-and-leaf plot showing scores on a quiz:

Stem | Leaf

3 | 2 5 8

4 | 0 3 7

5 | 1 4

a) What is the **lowest score**? _____

b) What is the **highest score**? _____

c) How many students scored in the 40s? _____