

# Answer Sheet

## Lesson 1 Numbers & Operations

### Integers & Operations

1. A 2. D 3. E 4. C

### Fractions & Operations

1. C 2. A 3. B 4. B 5. B

### Exponents & Square Root

1. C 2. B 3. B 4. C 5. A

### Special Symbols & Operations

1. A 2. D 3. A

### Assignment

1. 23

2. A

3.  $\frac{1001}{2}$

4.  $\frac{125}{128} < \frac{85}{87} < \frac{43}{44}$

5. A

6. 100 & 49

7.  $2^8 - 1$  or 255

8.  $16^{11} < 4^{31} < 8^{21}$

$23^{35} < 5^{70} < 3^{105}$

9. 10

10. 4.4

## Lesson 2 Word Problem

### Fractions & Ratios

1. E 2. B

### Percentages

1. C 2. C 3. A 4. E

### Time & Distance

1. D 2. A 3. D

### Assignment

1. **25 : 36**

2. E

3. B

4. **76%**

5. **23.75%**

6. 18

7. **82.5%**

8. 7

9. **100°**

10. 4.4

## Lesson 3 Number Theory

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### Divisibility Rules

1. D 2. A

### Prime and Composite Numbers

1. A 2. A

### Prime Factorization

1. E 2.C

LCM & GCF

1. A 2. D

Remainders

1. D 2. E

Place Value

1. E 2. E

Assignment

1. B 2. E 3. A 4. B 5. C 6. D 7. A 8. D

## Lesson 4 Counting and Probability

Graphs & Stats

1. C 2. D

Venn Diagrams

1. A 2. B

Enumerate

1. C 2. E

Coins & Dice

1. C 2. D

Forming Numbers

1. D 2. D 3.B

Stars and Bars

1. C

### Assignment

1. D 2. D 3. D 4. A 5. D 6. D 7. B 8. C

## Lesson 5 Geometry

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### Pythagorean Theorem

1. C 2. C

### Equal Height Triangles

1. B 2. C 3. B

### Circles & Tangents

1. B 2. B

### 3D Figures

1. A 2. A

### More Geometry

1. D 2. A 3. C

### Assignment

1. B 2. B 3. A 4. D 5. B 6. B 7. C 8. C

## Lesson 6 Combinatorics

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### Least & Largest

1. A 2. C 3. D

### Arranging & Ordering

1. D 2. D 3. D

### Sporting Event

1. B 2. C 3. B 4. B

### Logical Reasoning

1. D 2. B

### Assignment

1. B 2. D 3. C 4. B 5. C 6. B 7. C 8. C