

SKILLS LIST and SAMPLE TEST ITEMS

FOR

PRACTICE TEST FOR MATHEMATICS, GRADE 7

(Test items developed for skills measured in WESTEST)

Skills

- | | |
|---------------------------------------|-------------------------------------|
| 1.0 Numbers and Operations | 5.0 Data Analysis and Probability |
| 1.1 Numerical Operations | 5.1 Probability |
| 1.2 Problem Solving | 5.2 Data Analysis |
| 2.0 Algebra | 6.0 Thinking Skills - Comprehension |
| 2.1 Order of Operations | 6.1 Numbers and Operations |
| 2.2 Solve Equations/Ratios | 6.2 Algebra |
| 2.3 Solve Real World Problems | 6.3 Geometry |
| 3.0 Geometry | 6.4 Measurement |
| 3.1 Geometrical Figures | 6.5 Data Analysis/Probability |
| 3.2 Figures | 7.0 Thinking Skills - Analysis |
| 4.0 Measurement | 7.1 Geometry |
| 4.1 Calculate Units of
Measurement | 7.2 Measurement |
| 4.2 Convert Units of Measurement | 7.3 Data Analysis/Probability |

Number of questions: 52

Number of pages: 12

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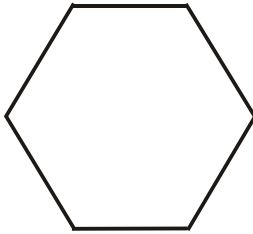
(OVER)

**WESTEST PRACTICE TEST IN MATHEMATICS - GRADE 7
FORM A**

PART 1

DIRECTIONS: Read each problem carefully and choose the correct answer. Fill in the circle by your answer on the test. You may use a calculator in this section. Stop when you come to the word STOP.

1. The figure below is a hexagon. Using the formula $(n-2)180$, where n is the number of sides, find the sum of the angles of the polygon.



- (A) 360 degrees
- (B) 520 degrees
- (C) 720 degrees
- (D) 1080 degrees

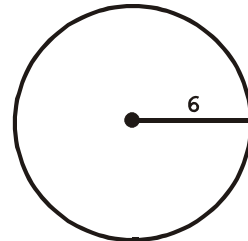
2. The table below shows driving information on four family vacations.

Family	Time	Distance
Smith	3 hours	195 miles
Jones	5 hours	300 miles
Franks	4 hours	280 miles
Langford	6 hours	348 miles

Which family had the highest average rate of speed?

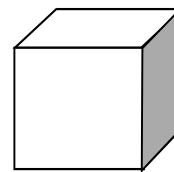
- (A) Smith
- (B) Jones
- (C) Franks
- (D) Langford

3. Janet is building a pool in her backyard. The outside edge of the pool will be covered in red tile. In order to buy the right number of tiles, she must find the circumference. What is the circumference of the pool if the radius is 6 feet?



- (A) 36.68 feet
- (B) 37.68 feet
- (C) 38.65 feet
- (D) 96.36 feet

4. The cube below has a side length 4 cm.



If the side length is doubled, how much will the volume increase?

- (A) 512 cubic cm
- (B) 448 cubic cm
- (C) 64 cubic cm
- (D) 12 cubic cm