

Diagnostic Assessment

Number and Quantitative Reasoning

Select the best answer.

- Which list contains the first four multiples of 13?
A 13, 130, 1300, 13000
B 13, 16, 19, 22
C 13, 14, 15, 16
D 13, 26, 39, 52
- Which pair of numbers has 7 as its least common multiple?
F 7, 21
G 3, 4
H 14, 28
J 1, 7
- The number 9 is a factor of which of the following numbers?
A 3
B 19
C 63
D 109
- What is the greatest common factor of $6d^2$ and $18d$?
F $6d^2$
G $6d$
H $3d^2$
J $3d$
- Which number is not composite?
A 9
B 21
C 37
D 111
- Find the value of $\sqrt{49}$.
F 4
G 7
H 24
J 98
- Which statement is true?
A $8 \cdot 8 \cdot 8 \cdot 8 \cdot 8 = 5(8)$
B $2 \cdot 2 \cdot 2 = 3^2$
C $5 \cdot 5 \cdot 5 \cdot 5 \cdot 5 \cdot 5 = 5^5$
D $6 \cdot 6 \cdot 6 \cdot 6 = 6^4$
- Evaluate 6^3 .
F 3
G 18
H 108
J 216

- Round 17.081 to the nearest tenth.
A 17
B 17.1
C 17.08
D 17.8

- Which fraction is written in simplest form?

F $\frac{121}{11}$

H $\frac{23}{3}$

G $\frac{85}{5}$

J $\frac{16}{4}$

- Change $\frac{4}{5}$ to a decimal.

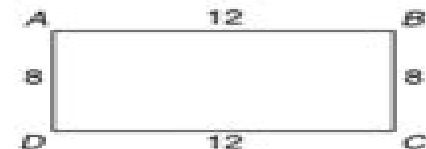
A 0.4

C 0.8

B 0.45

D 0.85

- What is the ratio of AB to BC , in simplest form?



F 1 : 1

H 3 : 2

G 2 : 3

J 4 : 3

- Which of the following has a unit rate of 17 miles per hour?

A 60 miles in 2 hours

B 85 miles in 5 hours

C 90 miles in 10 hours

D 120 miles in 15 hours

- Which decimal is equivalent to 22%?

F 0.2

G 0.22

H 2.2

J 22.0

Algebra Ii Diagnostic Test

K.S. Sidhu



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requires deliberate planning and thorough considerations The advice and experiences presented in this book serve as a guide to practitioners and as a good source of information for quality control The technical issues discussed in this book are relatively new and unique to K 12 large scale computer based testing programs especially due to the recent federal policy Several chapters provide possible solutions to psychometricians dealing with the technical challenges related to innovative items cognitive diagnosis and growth modeling in computer based linear or adaptive tests in the K 12 setting

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