COMPASS Mathematics Placement Test Sample Items

Numerical Skills/Pre-Algebra Placement

(Averages: Means, Medians, and Modes)
1. What is the average (arithmetic mean) of 8, 7, 7, 5, 3, 2, and 2?
   A. \(\frac{37}{5}\)
   B. \(\frac{46}{6}\)
   C. \(\frac{47}{7}\)
   D. \(\frac{5}{4}\)
   E. \(\frac{6}{5}\)

(Basic Operations with Decimals)
2. Ben is making wooden toys for the next arts and crafts sale. Each toy costs Ben $1.80 to make. If he sells the toys for $3.00 each, how many will he have to sell to make a profit of exactly $36.00?
   A. 12
   B. 20
   C. 30
   D. 60
   E. 108

(Basic Operations with Fractions)
3. How many yards of material from a 24-yard length of cloth remain after 3 pieces, each \(\frac{3}{2}\) yards long, and 5 pieces, each \(\frac{1}{4}\) yards long, are removed?
   A. \(2\frac{4}{5}\)
   B. \(\frac{4}{5}\)
   C. \(\frac{5}{6}\)
   D. \(10\frac{4}{5}\)
   E. \(10\frac{6}{7}\)

(Percentages)
4. Phillip charged $400 worth of goods on his credit card. On his first bill, he was not charged any interest, and he made a payment of $20. He then charged another $18 worth of goods. On his second bill a month later, he was charged 2% interest on his entire unpaid balance. How much interest was Phillip charged on his second bill?
   A. $8.76
   B. $7.96
   C. $7.60
   D. $7.24
   E. $6.63

Answers:

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