

Math Test

1. What is the average (arithmetic mean) of 8, 7, 7, 5, 3, 2, and 2?
A. $34/7$
B. $45/6$
C. $46/7$
D. 5
E. $64/5$
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
3. How many yards of material from a 24-yard length of cloth remain after 3 pieces, each $3\frac{1}{2}$ yards long, and 5 pieces, each $2\frac{1}{4}$ yards long, are removed?
A. $2\frac{1}{4}$
B. $4\frac{1}{4}$
C. $45/6$
D. $10\frac{1}{4}$
E. $105/6$
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
5. A student has earned scores of 87, 81, and 88 on the first 3 of 4 tests. If the student wants an average (arithmetic mean) of exactly 87, what score must she earn on the fourth test?
A. 85
B. 86
C. 87
D. 92
E. 93
6. Which of the following expressions represents the product of 3 less than twice x and 2 more than the quantity 3 times x ?
A. $-6x^2 + 25x + 6$
B. $6x^2 + 5x + 6$
C. $6x^2 - 5x + 6$
D. $6x^2 - 5x - 6$
E. $6x^2 - 13x - 6$