## SAMPLE ASSESSMENT QUESTIONS - MATH GRADE 7

## STANDARD

## 7.RP.A. 3 - Use proportional relationships to solve multistep ratio and percent problems.

Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.

1. Juan invented an innovative way to keep his shoes dry in rainy weather, the Shoe Slicker. He got a loan from a family friend for $\$ 1225$ to develop his product. He must pay the initial loan back plus an additional $18 \%$. He can make the Shoe Slicker for $\$ 4.58$. If he marks his Shoe Slicker up $225 \%$, how many must he sell to pay his family friend back?

Correct Answer: Juan must sell 141 Shoe Slickers to make enough money to pay his loan back to the family friend.

Webb's Cognitive - DOK Level 3
Bloom's - Analyzing/Evaluating
Difficulty - Difficult

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Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.
2. Julie went shopping at her favorite super store. She found a shirt for $\$ 24.99$, a hat for $\$ 12.50$, and a pair of shoes for $\$ 89.99$. She had a coupon for $\$ 35$ off an order of $\$ 100$ or more and a coupon for $30 \%$ off her entire order. If she could only use one coupon, which coupon would save her more money? Explain.

Correct Answer: Julie should use the $30 \%$ off coupon because she will save $\$ 38.24$. That is $\$ 3.24$ more than if she used the $\$ 35$ off an order of $\$ 100$ or more coupon.

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Examples: simple interest, tax, markups and markdowns, gratuities and commissions, fees, percent increase and decrease, percent error.
3. Natalie found a sweater for $\$ 19.99$ at the Discount Depot. If she used a $20 \%$ off coupon, how much did she pay for the sweater?
a) $\$ 4$
b) $\$ 15.99$
c) $\$ 23.99$
d) $\$ 14.99$

## Correct Answer: b

Webb's Cognitive - DOK Level 1
Bloom's - Evaluating
Difficulty - Easy


[^0]:    Webb's Cognitive - DOK Level 2
    Bloom's - Evaluating
    Difficulty - Medium

