## MPM1DI Extra Review: Story Questions

## UNIT RATE QUESTIONS:

- 1. Aleigha has \$4.85 made up of dimes and quarters. If there are 32 coins in all, how many dimes does he have?
- 2. On a particular evening, there are four times as many seniors at a movie as adults. Adult tickets cost \$10 and senior tickets cost \$8. If ticket sales are \$1554, how many adults and how many seniors go to the movie?
- 3. On a particular evening, a total of 187 people go to a theatre performance. Adult tickets cost \$12 and senior tickets cost \$10. If ticket sales are \$2156, how many adults and how many seniors go to the theatre?
- 4. A grocery store is making up a mixture of chocolate covered almonds and M&M's that costs \$8/kg. If the chocolate covered almonds cost \$13/kg and the M&M's cost \$7/kg, how much of each kind are needed to make up a 9 kg mixture?

## NUMBER QUESTIONS:

5. Find three consecutive numbers whose sum is -219.

6. Maeve is three times as old as Andrew. In five years, the sum of their ages will be thirty-eight. How old are they today?

7. The length of a rectangle is 3cm longer than its width. The perimeter of the rectangle is 82 cm. How wide is the rectangle? (Recall: the Perimeter of a rectangle is twice the width plus twice the length).

1. Dimes Quartis Tota	1 2. Seniors Adults Total 3. Seniors Adults Total
\$/coin 10 25 ×	8/Hicket 8 10 × 8/Hicket 10 12 ×
115. of coins d 32-d 32	No. of tidets it x x > No. of tidety x 187-x 187
Total & lod + 25(32-d) = 483	
10d + 25(32 - d) = 485	42x = 1554 $10x + 12(187 - x) = 2156$
10d + 800 - 25d = 485	$\begin{aligned} &\chi = 37 \\ &4\chi = 148 \\ &-2\chi + 2244 = 2156 \\ &-2\chi + 2244 = 2156 \end{aligned}$
800 - 15d = 485 - $800$ - $800$	$4\chi = 148$ $-2\chi + 22.44 = 2156$
- 800 - 800	$4\chi = 148$ $-2\chi + 22.44 = 2156$ 148  Semiors and 37 adults 2244 = -2244 2244 = -2244 2244 = -2244 $-2\chi = -88$
d=21	
1. Almonds MEN's John D. Sikq 13 7 8 re No of kg's $\chi$ 9- $\chi$ 9 $\chi$ + total B 13 $\chi$ + 7(9- $\chi$ )= 72 13 $\chi$ + 63-7 $\chi$ = 72 6 $\chi$ + 63= 72	quarkers) Let $z, x+1, x+2$ Dresent the numbers. (x+1)+ix+2 = -219 3x+3 = -219 x = -74 x = -72 1e numbers are $-74, -73, -721e$ numbers are $-74, -73, -721e$ numbers are $-74, -73, -721e$ numbers $2x = -741e$ numbers $2x = -742x = -382x = -382x = -382x = -382x = -382x = -742x = -382x = -38$