Unit 8 Practice Test
Decimals

1. What is a decimal and how can we use it? Write at least 4 lines.

2. Complete the table.

Fraction	Decimal
$\dfrac{4}{5}$	
	4.6
$\dfrac{4}{25}$	
	0.32
	0.006
$\dfrac{8}{11}$	

3. Simplify the expressions:

4.92 + 5.998	12 − 0.44
19.2 − 5.785	26 + 4.32
81 × 0.33	5.32 × 6.17
0.67 ÷ 0.8	$\dfrac{60.75}{0.025}$

4. Over winter break, Mr. Barnes needed to mail some packages to his loved ones. He had a 3.5 ounce box of chocolates to send to his mother, a 9 ounce box of baseball cards to send to his father, and a 0.67 ounce box of freeze-dried ice cream to send to his sister. In total, how many ounces of packages did Mr. Barnes have? Show your scratch work, please.

5. Mr. Barnes walked to the post office to mail his packages. When he arrived, he heard a familiar voice. "Hi, Mr. Barnes!"

It was Larry! "Hi, Larry!" Mr. Barnes replied. "Hey, I have some packages to send to my loved ones in Tucson, Arizona. How much will it cost me?"

Larry frowned and said, "I wish I could tell you, Mr. Barnes, but the computer is broken. I know we charge $1.49 per ounce but that's all I can say."

"We don't need a computer for that, Larry – we can use multiplication!"

"We c-c-can??" Larry said, taking a step backwards, almost knocking over the stamp machine. How much does Mr. Barnes owe the post office? Show your work.

6. The post general, Mr. Fasselbass, stomped over. "What sort of trickery is this?!" Mr. Fasselbass demanded in a very loud voice. Everything went very quiet.

Mr. Barnes nervously explained the situation, mostly about how math could save the day. Mr. Fasselbass apologised for losing his temper and was so grateful that he took three dollars off of the final price. How much did Mr. Barnes have to pay after the discount? Show your scratch work, please.

7. What was the mean (average) weight of the three packages? Round to the nearest tenth. Show your scratch work, please.