Practice worksheet | Integers and rational numbers

# Choosing efficient exact/decimal representations

Name: _____ Date: _____

6 questions | 13 marks

**1.** Write $\frac{3}{8}$ as an exact decimal. [2 marks]

**2.** Round $\frac{1}{3}$ to two decimal places and use the correct equality or approximation symbol. [2 marks]

**3.** Find the exact total of three one-third-metre pieces. Explain why adding three rounded lengths of 0.33 m gives a different result. [3 marks]

**4.** The square root of 18 is approximately 4.24. Which expression gives its exact value: $\sqrt{18}$ or 4.24? Explain. [2 marks]

**5.** Four students share AUD 9 equally. Find each share and decide whether cents require rounding. [2 marks]

**6.** Use $\pi \approx 3.14159$ to round $5\pi$ cm to one decimal place. [2 marks]