Name: —————————————————— Mark: ——————————————————

Mini-math Gr 6: Tuesday, September 6, 2021 (12 minutes)

Each question is worth 2 marks: 1 for the work and 1 for the answer.

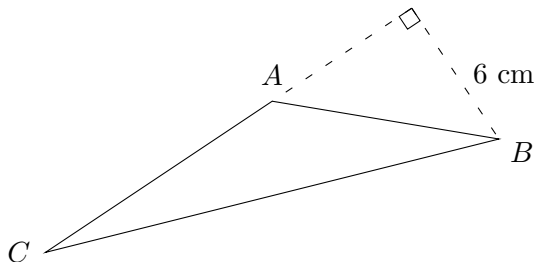(1) Find the sum of $\frac{1}{6}$, $\frac{3}{4}$, and $\frac{3}{2}$.

Solution:

$$\frac{1}{6} + \frac{3}{4} + \frac{3}{2} = \frac{2 + 9 + 18}{12} = \frac{29}{12}$$

(2) Find the product of $\frac{5}{6}$ and $\frac{16}{25}$.

Solution:

$$\frac{5}{6} \cdot \frac{16}{25} = \frac{8}{15}$$

(3) Find the area of the following triangle: AC = 10 cm, and BC = 14 cm, with the dotted line 6 cm.

Solution:
$\frac{1}{2}(6)(10) = 30$ cm^2.

(4) Evaluate $-5^2 + 10$

Solution:

$$-25 + 10 = -15$$

Name: _____   Mark: _____

Mini-math Gr 6: Monday, September 20, 2021 (8 minutes)

Each question is worth 2 marks: 1 for the work and 1 for the answer.

(1) Compute $\dfrac{12}{5} \div \dfrac{16}{15}$

Solution:

$$\frac{12}{5} \div \frac{16}{15} = \frac{12}{5} \cdot \frac{15}{16} = \frac{3}{1} \cdot \frac{3}{4} = \frac{9}{4}$$

(2) Find $\dfrac{13}{7}$ as a decimal, to the nearest hundredth.

Solution:

$$\frac{13}{7} \approx 1.85714...$$

so to the nearest hundredth, this is 1.86.

(3) What is 88% of \$12.50?

Solution:

$$88\% \text{ of } 12.5 = 12.5\% \text{ of } 88 = \frac{1}{8} \cdot 88 = \$11$$

(4) Compute $\dfrac{1}{2} + \dfrac{2}{3} \times \dfrac{6}{5} - \dfrac{2}{5}$

Solution:

$$\frac{1}{2} + \frac{2}{3} \times \frac{6}{5} - \frac{2}{5} = \frac{1}{2} + \frac{4}{5} - \frac{2}{5} = \frac{1}{2} + \frac{2}{5}$$
$$= \frac{5}{10} + \frac{4}{10} = \frac{9}{10}$$

2

Mini-math Gr 6: Monday, September 27, 2021 (6 minutes)

Each question is worth 2 marks: 1 for the work and 1 for the answer.

(1) Find $\dfrac{1}{13}$ as a decimal, to the nearest thousandth.

Solution:

$$\frac{1}{13} \approx 0.0769...$$

so to the nearest thousandth, this is 0.077.

(2) Compute $\left(\dfrac{1}{2} + \dfrac{49}{8} \times \dfrac{4}{21}\right)^2 \div \dfrac{5}{6} - \dfrac{1}{5}$

Solution:

$$
\begin{aligned}
\left(\frac{1}{2} + \frac{49}{8} \times \frac{4}{21}\right)^2 \div \frac{5}{6} - \frac{1}{5} &= \left(\frac{1}{2} + \frac{7}{6}\right)^2 \times \frac{6}{5} - \frac{1}{5} \\
&= \left(\frac{10}{6}\right)^2 \times \frac{6}{5} - \frac{1}{5} \\
&= \frac{25}{9} \times \frac{6}{5} - \frac{1}{5} \\
&= \frac{10}{3} - \frac{1}{5} \\
&= \frac{47}{15}
\end{aligned}
$$