Year 8 Class 7 questions

Q1

$\frac{2}{3}$ as a decimal is

- ◉ $0.\dot{6}$
- ○ 0.6
- ○ 0.23
- ○ $0.0\dot{6}$

Q2

$\frac{5}{8} - \frac{1}{3} =$

$\frac{4}{5}$ $\frac{7}{24}$ $\frac{4}{24}$ $\frac{5}{12}$ $\frac{7}{24}$

Q3

Write 9.25 as an improper fraction in simplest form.

$\frac{\square}{\square}$ $\frac{37}{4}$

Q4

Write 3.25 as an improper fraction in simplest form.

$\frac{\square}{\square}$ $\frac{13}{4}$

Q5

Do the subtraction, giving your answer in its **simplest** form.

$\frac{9}{10} - \frac{1}{2} = \frac{\square}{\square}$ $\frac{2}{5}$

Q6

Do the subtraction, giving your answer in its **simplest** form.

$\frac{5}{6} - \frac{7}{10} = \frac{\square}{\square}$ $\frac{2}{15}$

Q7

Do the subtraction, giving your answer in **simplest** form.

$2\frac{3}{5} - 1\frac{2}{3} = \frac{\square}{\square}$ $\frac{14}{15}$

Q8

Do the subtraction, giving your answer in **simplest** form.

$10\frac{2}{9} - 9\frac{2}{3} = \frac{\square}{\square}$ $\frac{5}{9}$

Q9

Multiply these fractions, giving your answer in **simplest** form.

$\frac{2}{3} \times \frac{15}{12} = \frac{\square}{\square}$ $\frac{5}{6}$

Q10

Multiply these fractions, giving your answer in **simplest** form.

$\frac{7}{10} \times \frac{35}{41} = \frac{\square}{\square}$ $\frac{49}{82}$

Q11

Find the answer in **simplest** form.

$2\frac{1}{2} \times 5\frac{1}{4} = \frac{\square}{\square}$ $\frac{105}{8}$

$= \square\frac{\square}{\square}$ $13\frac{1}{8}$

Q12

Find the answer in **simplest** form.

$4\frac{1}{2} \div 6\frac{3}{4} = \frac{\square}{\square}$ $\frac{2}{3}$

Q13

$237.2 - 124.47 =$ $\square$ 112.73

Q14

$26.7 - 17.378 =$ $\square$ 9.322

Q15

$0.8 \times 9.7 =$ $\square$ 7.76

Q16

$(0.3)^3 = 0.3 \times \square \times \square$ 0.3×0.3

$= \square$ 0.027

Q17

Between which two integers does $\sqrt{80}$ lie?

○ 10 and 11 ○ 12 and 13

○ 7 and 8 → ○ 8 and 9

Q18

Is $\frac{0}{3}$ rational or irrational?

→ ○ Rational ○ Irrational

Q19

Do the subtraction, giving your answer in its **simplest** form.

$\frac{7}{24} - \frac{1}{6} = \frac{\square}{\square}$ $\frac{1}{8}$

Q20

Do the subtraction, giving your answer in its **simplest** form.

$\frac{32}{100} - \frac{1}{10} = \frac{\square}{\square}$ $\frac{11}{50}$

Q21

Do the subtraction, giving your answer in **simplest** form.

$2\frac{1}{5} - 1\frac{1}{2} = \frac{\square}{\square}$ $\frac{7}{10}$

Q22

Do the subtraction, giving your answer in **simplest** form.

$10\frac{3}{8} - 7\frac{1}{3} = \square\frac{\square}{\square}$ $3\frac{1}{24}$

Q23

Multiply these fractions, giving your answer in **simplest** form.

$\frac{3}{5} \times \frac{15}{21} = \frac{\square}{\square}$ $\frac{3}{7}$

Q24

Multiply these fractions, giving your answer in **simplest** form.

$3 \times \frac{2}{5} = \square\frac{\square}{\square}$ $1\frac{1}{5}$

Q25

Find the answer in **simplest** form.

$6\frac{2}{3} \div 10 = \frac{\square}{\square}$ $\frac{2}{3}$

Q26

Find the answer in **simplest** form.

$4\frac{1}{2} \div 6 = \frac{\square}{\square}$ $\frac{3}{4}$

Q27

$76 - 32.9 =$ ☐ 43.1

Q28

$35 - 22.184 =$ ☐ 12.816

Q29

Given that $615 \times 82 = 50\,430$

then $61.5 \times 0.82 =$ ☐ 50.43

Q30

$1.97 \times 0.54 =$ ☐ 1.0638