

Notes – Level 7

Maths

Show working for these Sections: 1, 2, 4, 6, 7, 9

Section 1

For the following group of questions, show working in the spaces below. Choose or write the correct answer on your computer.

Type the prime factorization of 252 using exponents.

² × 3 ×

SHOW WORKING HERE

[Office use only 1073: 8]

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Section 2

For the following group of questions, show working in the spaces below. Choose or write the correct answer on your computer.

Solve. Reduce fractions to lowest terms, and type improper fractions as mixed numbers.

$\frac{1}{3} \times \frac{1}{4} = \frac{\text{}}{\text{}}$ $3\frac{1}{6} \div \frac{5}{6} = \text{}\frac{\text{}}{\text{}}$ $2\frac{3}{5} + 1\frac{7}{8} = \text{}\frac{\text{}}{\text{}}$
 $5\frac{1}{3} - 2\frac{3}{4} = \text{}\frac{\text{}}{\text{}}$ $12 - 6\frac{3}{8} = \text{}\frac{\text{}}{\text{}}$ $2\frac{4}{5} \times 1\frac{7}{8} = \text{}\frac{\text{}}{\text{}}$

SHOW WORKING HERE

[Office use only 1074: 3-8]

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Section 4

For the following group of questions, show working in the spaces below. Choose or write the correct answer on your computer.

Follow the order of operations, and evaluate these expressions.

$6 - (4 \div 2) + 2 \cdot 3 =$ ☐ 9 ☒ 10 ☐ 18 ☐ 48

$4 + (2 \cdot 3^2 + 4) \div 11 =$ ☐ $\frac{1}{R9}$ ☐ 2 ☒ 6 ☐ $\frac{5}{R3}$

Follow the order of operations, and evaluate these expressions if $x = 6$ and $y = 3$.

$x(x - y) - y =$ ☐ 0 ☐ 6 ☐ 15 ☐ 30

$\frac{xy^2}{x} =$ ☐ 54 ☐ 9 ☐ 6 ☐ 0

Solve these equations.

$3x + 2 = 59$
 $x = \square$

$2x + 12 = 4x$
 $x = \square$

SHOW WORKING HERE

[Office use only 1076: 1-6]

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Section 6

Note: non-metric measures.

Select the correct answer.

15 pints = ☒ $7\frac{1}{2}$ quarts ☐ $3\frac{3}{4}$ quarts ☐ $1\frac{7}{16}$ quarts ☐ $\frac{15}{16}$ quarts

4 quarts = ☐ 4.4 liters ☐ 4.2 liters ☒ 3.8 liters ☐ 3.6 liters

A plane is traveling at 600 miles per hour. How many feet per second is it traveling?

ft/sec

Section 7

For the following group of questions, show working in the spaces below. Choose or write the correct answer on your computer.

Solve. Round your answers to the tenths' place when necessary.

25 is 60% of what number?

12 is what percent of 80? %

SHOW WORKING HERE

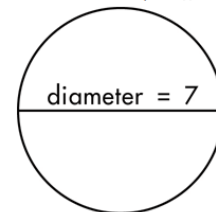
[Office use only 1079: 13-14]

Section 9

For the following group of questions, show working in the spaces below. Choose or write the correct answer on your computer.

Solve as directed.

Find the circumference of this circle. (Use $\pi = 3.14$.) C = units



Find the area of this circle. (Use $\pi = \frac{22}{7}$.) A = units

SHOW WORKING HERE

[Office use only 1081: 1-2]