

Apprenticeship & Workplace Math 10

Apprenticeship & Workplace Math 11

Apprenticeship & Workplace Math 12

Measurement

- demonstrate an understanding of the Système Internationale (SI)

- demonstrate an understanding of the imperial system

- solve and verify problems that involve SI and imperials linear measurements, including decimal and fractional measurements

- solve problems that involve SI and imperial area measurements of regular, composite and irregular 2-D and 3-D objects, including decimal and fractional measurements, and verify their solutions

- solve problems that involve SI and imperial units in surface area measurement and verify the solutions

- solve problems that involve SI and imperial units in volume and capacity

- demonstrate an understanding of the limitations of measuring instruments

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Geometry

- analyze puzzles and games that involve spatial reasoning, using problem-solving strategies
- demonstrate an understanding of the Pythagorean Theorem
- demonstrate an understanding of similarity of convex polygons, including regular and irregular polygons
- demonstrate an understanding of primary trigonometric ratios (sine, cosine & tangent)
- solve problems that involve parallel, perpendicular and transversal lines, and pairs of angles formed between them
- demonstrate an understanding of angles, including acute, right, obtuse, straight and reflex

- solve problems that involve two and three right triangles
- solve problems that involve scale
- model and draw 3-D objects and their views
- draw and describe exploded views, component parts and scale diagrams of simple 3-D objects

- solve problems by using the sine law and cosine law, excluding the ambiguous case
- solve problems that involve triangles, quadrilaterals and regular polygons
- demonstrate an understanding of transformations on a 2-D shape or a 3-D object

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Number

- solve problems that involve unit pricing and currency exchange, using proportional reasoning

- demonstrate an understanding of income in order to be able to calculate gross pay and net pay

- analyze puzzles and games that involve numerical reasoning, using problem-solving strategies

- solve problems that involve personal budgets

- demonstrate an understanding of compound interest

- demonstrate an understanding of financial institution services used to access and manage finances

- demonstrate an understanding of credit options

- analyze puzzles and games that involve logical reasoning, using problem-solving strategies

- solve problems that involve the acquisition of a vehicle

- critique the viability of small business options

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Algebra

- solve problems that require the manipulation and application of formulas

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- demonstrate an understanding of slope

- solve problems by applying proportional reasoning and unit analysis

- demonstrate an understanding of linear relations

Statistics

- solve problems that involve creating and interpreting graphs

- solve problems that involve measures of central tendency

- analyze and describe percentiles

Probability

- analyze and interpret problems that involve probability