2020 HIGHER SCHOOL CERTIFICATE EXAMINATION

Mathematics Standard 1 Mathematics Standard 2

#### REFERENCE SHEET

#### Measurement

#### Limits of accuracy

Absolute error =  $\frac{1}{2} \times$  precision Upper bound = measurement + absolute error Lower bound = measurement - absolute error

#### Length

$$I = \frac{\theta}{360} \times 2\pi r$$

#### Area

$$A = \frac{\theta}{360} \times \pi r^2$$

$$A = \frac{h}{2} (a + b)$$

$$A = \frac{h}{2} (d_f + d_f)$$

#### Surface area

$$A = 2\pi r^2 + 2\pi rh$$

$$A = 4\pi r^2$$

$$V = \frac{1}{3}Ah$$

$$V = \frac{4}{2}\pi r^3$$

#### Trigonometry

sin 
$$A = \frac{\text{opp}}{\text{hyp}}$$
,  $\cos A = \frac{\text{adj}}{\text{hyp}}$ ,  $\tan A = \frac{\text{opp}}{\text{adj}}$   
 $A = \frac{1}{2}ab\sin C$   

$$\frac{a}{\sin A} = \frac{b}{\sin B} = \frac{c}{\sin C}$$

$$c^2 = a^2 + b^2 - 2ab\cos C$$

$$\cos C = \frac{a^2 + b^2 - c^2}{2ab}$$

#### Financial Mathematics

$$FV = PV(1+r)^n$$

#### Straight-line method of depreciation

$$S = V_0 - Dm$$

#### Declining-balance method of depreciation

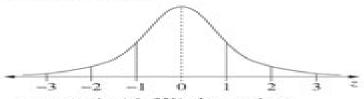
$$S = V_0 (1-r)^n$$

#### Statistical Analysis

An outlier is a score less than 
$$Q_1 - 1.5 \times IQR$$
 or more than  $Q_3 + 1.5 \times IQR$ 

$$z = \frac{x - \mu}{\sigma}$$

#### Normal distribution



- approximately 68% of scores have z-scores between -1 and 1
- approximately 95% of scores have z-scores between -2 and 2
- approximately 99.7% of scores have z-scores between –3 and 3

# **Mathematics Standard**

**Léo Pomar** 



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