

# TRIAL HIGHER SCHOOL CERTIFICATE EXAMINATION

MARKING GUIDELINES

2022

# **Mathematics Standard 2**

Section I 15 marks

Questions 1-15 (1 mark each)

Questions 1-1	Answer	Content	Outcome Assessed	Targeted Performance Bands
1	В	MSS1.2 Summary Statistics	MS2-12-7	2-3
2	С	MS-A2 Linear Relationships	MS2-12-6	2-3
3	D	MS-N2.1 Networks	MS2-12-8	2-3
4	D	MS-M2 Working with Time	MS2-12-4	3-4
5	В	MS-M6 Non-right Trigonometry	MS2-12-4	3-4
6	В	MS-M7 Rates and Ratios	MS2-12-3	3-4
7	D	MS-S5 The Normal Distribution	MS2-12-7	3-4
8	A	MS-A4.1 Simutanous Linear Equations	MS2-12-6	3-4
9	A	MS-M7 Rates and Ratio	MS2-12-4	4-5
10	D	MS-S2 Relative Freq and Probability	MS2-12-3	3-4
11	C	MS-F1.1 Interest and depreciation	MS2-12-5	4-5
12	В	MS-S4 Bivariate Data Analysis	MS2-12-7	4-5
13	С	MS-F4.1 Investments	MS2-12-5	4-5
14	В	MS-A1 Formulae and Equations	MS2-12-1	5-6
15	A	MS-N3 Critcial Path Analysis	MS2-12-8	5-6

#### Disclaimer

#### Section II 85 marks

**Question 16** (2 marks)

Content: MS-A1

Outcomes assessed: MS2-12-1

Targeted Performance Bands: 3-4

Criteria	Marks
Correct working and solution	2
Substitution of correct values of N and H or similar progress	1

# Sample Answer:

$$N = 1.4 \times 5 = 7$$
 standard drinks

$$H = 7.5$$
 hours

$$M = 72 \text{ kg}$$

$$BAC = \frac{10N - 7.5H}{5.5M}$$

$$= \frac{10 \times 7 - 7.5 \times 7.5}{5.5 \times 72}$$
$$= 0.03472 \dots$$
$$= 0.035$$

#### Question 17 (2 marks)

Content: MS-M7

Outcomes assessed:MS1-12-3

Targeted Performance Bands: 2-3

	Criteria	Marks
•	Correct working and answer	2
	Calculation of number of tiles required or similar progress	1

#### Sample Answer:

Area of wall =  $270 \times 330 = 89 \times 100 \text{ cm}^2$ 

Area of each tile =  $30 \times 30 = 900 \text{ cm}^2$ 

Number of tiles needed =  $89\ 100 \div 900 = 99$ 

Number of starbursts =  $99 \times 3 = 297$ 

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Question 18 (2 mark)

Content: MS-F4.1

Outcomes assessed:MS1-12-5

Targeted Performance Bands: 2-3

	Criteria	Marks
	Correct working and answer	2
0	Use of correct formula with incorrect value for n or similar progress	1

#### Sample Answer:

$$FV = 88 (1 + 1.3\%)^{20}$$
  
= \$113.94  
= \$114

#### Question 19 (3 marks)

(a) (1 mark)

Content: MS-M7

Outcomes assessed: MS2-12-4

Targeted Performance Bands: 2-3

	Criteria	Marks
•	Correct answer	1

# Sample Answer:

$$\frac{6}{40} \times 100 = 15\%$$

#### (b) (2 marks)

Content: MS-M7

Outcomes assessed: MS2-12-4 Targeted Performance Bands: 3-4

	Criteria	Marks
0	Correct working and answer	2
	Correct expression linking the two stages or similar progress	1

#### Sample Answer:

$$15\% = 36$$

$$1\% = 2.4$$

$$100\% = 240$$

∴ 240 turtles

Question 20 (3 marks)

Content: MS-M7

Outcomes assessed: MS1-12-3

Targeted Performance Bands: 3-4

	Criteria	Marks
	Correct working and answer given to two significant figures	3
•	Correct working and answer without rounding to two significant figures	2
•	Calculation of number of kilometres per week or similar progress	1

### Sample Answer:

 $$75 \div 1.79 = 41.89944$  litres of petrol can be purchased per week

 $41.89944 \div 6.8 \times 100 = 616.168$  km per week

Yearly travel =  $616.168 \times 52$ 

 $= 32\,040.7 \text{ km}$ 

= 32 000 km (two significant figures)

Question 21 (6 marks)

(a) (3 marks)

Content: MS-M1.2

Outcomes assessed: MS1-12-4

Targeted Performance Bands: 3-4

	Criteria	Marks
•	Correct working and answer	3
•	Use of $r = 7.5$ and correct surface area formula	2
	Use of $r = 7.5$ or correct surface area formula	1

#### Sample Answer:

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

$$=\pi\times7.5^2+2\times\pi\times7.5\times12$$

$$= 742.2 \text{ cm}^2$$

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**(b)** (3 marks)

Content: MS-M1.2

Outcomes assessed:MS1-12-4

Targeted Performance Bands: 3-4

	Criteria	Marks
0	Correct calculation of volume, capacity and concluding statement	3
•	Correct calculation of volume and capacity	2
•	Correct calculation of volume	1

### Sample Answer:

$$V = \pi r^2 h$$
  
=  $\pi \times 7.5^2 \times 12$   
= 2120.58 cm<sup>3</sup>

The capacity of the pot is > 2 L, therefore the container is large enough for use.

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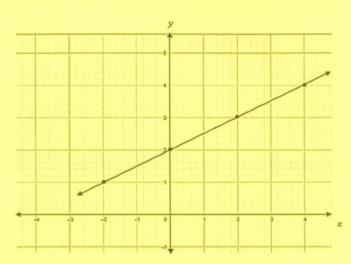
Question 22 (3 mark)
Content: MS-F4.1

Outcomes assessed:MS1-12-5

Targeted Performance Bands: 3-4

	Criteria	Marks
	Correctly drawn graph and correct equation	3
•	Correctly drawn graph with partly correct equation or similar	2
•	Correctly drawn graph with incorrect equation or similar	1

# Sample Answer:



Equation of the line:  $y = \frac{1}{2}x + 2$ 

Question 23 (2 marks)
Content: MS-M7

Outcomes assessed:MS1-12-3

Targeted Performance Bands: 2-3

Г	Criteria	Marks
-	Correct working and answer	2
	Conversion of mL into drops or similar progress	1

#### Sample Answer:

900 ml in 6 hours

- = 14 400 drops in 6 hours
- = 2400 drops/h
- = 40 drops/min

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Question 24 (3 marks)

(a) (1 mark)

Content: MS-S2

Outcomes assessed: MS11-8

Targeted Performance Bands: 2-3

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	Criteria	Marks			
•	Correct answer	1			

Answer:  $\frac{2}{7}$ 

**(b)** (2 marks)

Content: MS-S2

Outcomes assessed: MS11-8

Targeted Performance Bands: 4-5

	Criteria	Marks
	Correct working and answer	2
•	Partly correct working or progress	1

### Sample Answer:

$$P = (\frac{2}{7} \times \frac{5}{6}) + (\frac{5}{7} \times \frac{2}{6})$$
$$= \frac{10}{21}$$

#### Disclaime

Ouestion 25 (3 mark)

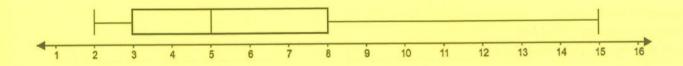
Content: MS-S1.2

Outcomes assessed: MS2-12-7

Targeted Performance Bands: 4-5

	Criteria	Marks
•	Box plot that shows all five correct values from the five-number summary	3
_	Box plot that shows 4 correct values from the five-number summary	2
_	Box plot that shows 2 or 3 correct values from the five-number summary	1

#### Sample Answer:



Question 26 (2 marks) Content: MS-F4.1

Outcomes assessed:MS1-12-5

Targeted Performance Rands: 3-4

	Criteria	Marks
•	Correct working and answer	2
•	Calculation of value of shares or similar progress	1

#### Sample Answer:

Total value of shares =  $$17.50 \times 2400 = $42000$ 

Dividend yield = 
$$\frac{504}{42000} \times 100$$
  
= 1.2%

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6000-2 -8Question 27 (4 marks)

(a) (2 marks)

Content: MS-S1.2

Outcomes assessed: MS2-12-7

Targeted Performance Rands: 4-5

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	Criteria	Marks
•	Correct working and answer	2
•	Calculation of IQR or similar progress	1

#### Sample Answer:

$$Q_1 = 511\,000$$

$$IQR = 566\,000 - 511\,000 = 55\,000$$

 $Q_3 = 566\,000$ 

$$Q_3 + 1.5 \times IQR$$
  
= 566 000 + 1.5 × 55 000  
= 648 500

\$980 000 > \$648 500

∴ \$980 000 is an outlier

#### **(b)** (2 marks)

Content: MS-S1.2

Outcomes assessed: MS2-12-7

Targeted Performance Bands: 4-5

	Criteria	Marks
•	Explanation of impact on mean and median with calculations to support	2
•	Explanation of impact on either mean or median or without calculations to support	1

# Sample Answer:

#### The outlier:

- Causes an increase in the mean.  $\bar{x}$ (without outlier) = \$527 143  $\bar{x}$ (with outlier) = \$583 750
- Has no impact on the median. The median is unchanged. median = \$528000

### Disclaimer

Question 28 (6 marks)

(a) (2 marks)

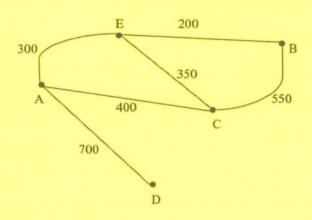
Content: MS-N2.2

Outcomes assessed: MS2-12-8

Targeted Performance Bands: 3-4

	Criteria	Marks
•	Complete correct network. All edges labelled	2
	Partly correct or incomplete network.	1

### Sample Answer:



(b) (2 marks)

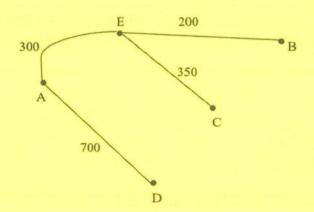
Content: MS-N2.2

Outcomes assessed: MS2-12-8

Targeted Performance Bands: 3-4

	Criteria	Marks
•	Correct minimum spanning tree.	2
•	Partly correct or incomplete spanning tree.	1

#### Sample Answer:



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(c) (1 mark)

Content: MS-N2.2

Outcomes assessed: MS2-12-8

Targeted Performance Bands: 3-4

	Criteria	Marks
•	Correct length	1

# Sample Answer:

300 + 200 + 350 + 700 = 1550 m

(d) (1 mark)

Content: MS-N2.2

Outcomes assessed: MS2-12-8 Targeted Performance Bands: 3-4

	Criteria	Marks
•	Correct answer	1

#### Sample Answer:

 $550 - 200 = 350 \,\mathrm{m}$ 

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Question 29 (2 marks)

Content: MS-M7

Outcomes assessed:MS1-12-3

Targeted Performance Bands: 3-4

Criteria		Marks
	Correct working and answer	2
	Conversion of minutes to hours or similar progress	1

### Sample Answer:

 $75 \times 0.275 \times 1.5 = $30.94$ 

Question 30 (7 marks)

(a) (3 marks)

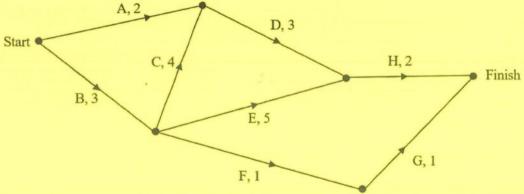
Content: MS-N3

Outcomes assessed: MS2-12-8

Targeted Performance Bands: 4-5

	Criteria	Marks
•	Correct directed and labelled network diagram and completion time	3
•	Correct and labelled network diagram or similar progress	2
•	Partly correct or incomplete network diagram or similar progress	1

#### Sample Answer:



Minimum completion time = 12 hours

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(b) (1 mark)

Content: MS-N3

Outcomes assessed: MS2-12-8
Targeted Performance Bands: 4-5

Criteria	Marks
Correct answer	1

Answer: BCDH

(c) (1 mark)

Content: MS-N3

Outcomes assessed: MS2-12-8
Targeted Performance Bands: 4-5

• Correct answer 1

Answer: 5 hours

(d) (2 marks)

Content: MS-N3

Outcomes assessed: MS2-12-8

Targeted Performance Bands: 4-5

l		Criteria	Marks
	•	A correct explanation that considers increases both less than and more than float time	2
	•	A correct explanation that only considers less than or more than float time	1

#### Sample Answer:

An increase of 7 hours or less will have no impact on the completion time. However, an increase of more than 7 hours will delay the completion time of the project.

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Question 31 (3 mark)

Content: MS-S5

Outcomes assessed: MS2-12-7

Targeted Performance Bands: 4-5

	Criteria	Marks
•	Correct working and answer	3
	Correct calculation of the percentage of women or similar progress	2
•	Correct calculation of z-scores of -3 and 2 or similar progress	1

# Sample Answer:

z-score corresponding to size 5:

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

z-score corresponding to size 10:

$$z = \frac{10 - 8}{1}$$
$$= 2$$

$$95\% + \frac{1}{2} (99.7\% - 95\%)$$
$$= 97.35\%$$

 $97.35\% \times 4000 = 3894$ 

: 3894 women in the town can find their shoe size.

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Question 32 (6 marks)

(a) (4 marks)

Content: MS-A4.2

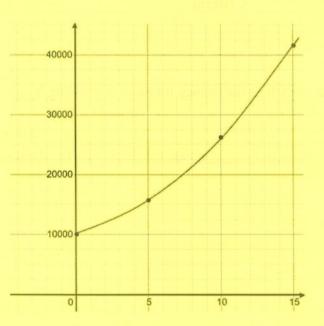
Outcomes assessed: MS2-12-6

Targeted Performance Bands: 4-5

	Criteria	Marks
•	All correct values in the table and accurate exponential graph starting at 10 000	4
•	All correct values in the table and an inaccurate graph or similar progress	3
•	Some correct values in the table and/or incorrect graph	2
•	Limited correct values in the table and graph or similar progress	1

# Sample Answer:

n	0	5	10	15
A	10 000	16 105.10	25 937.42	41 772.48



#### Disclaimer

**(b)** (1 mark)

Content: MS-A4.2

Outcomes assessed: MS2-12-6

Targeted Performance Bands: 3-4

	Criteria	Marks
•	Correct answer	1

# Sample Answer:

The investment will have doubled from \$10 000 to \$20 000 in approximately  $7\frac{1}{2}$  years.

(c) (1 mark)

Content: MS-A4.2

Outcomes assessed: MS2-12-6

Targeted Performance Bands: 3-4

Criteria	Marks
Correct answer	1

### Sample Answer:

The investment is exponential growth as the money invested is growing by an increasing amount each year.

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Question 33 (2 marks)

Content: MS-M6

Outcomes assessed:MS1-12-4

Targeted Performance Bands: 3-4

	Criteria	
•	Correct working and answer	2
•	Use of cosine rule	1

# Sample Answer:

$$c^2 = a^2 + b^2 - 2ab \cos C$$
  
 $x^2 = 8.8^2 + 18.4^2 - 2 \times 8.8 \times 18.4 \times \cos 65^\circ$   
 $x^2 = 279.139 \dots$   
 $\therefore x = 16.7 \text{ cm}$ 

Question 34 (3 marks)

(a) (2 marks)

Content: MS-M1.2

Outcomes assessed: MS2-12-4

Targeted Performance Bands: 3-4

	Criteria	Marks
•	Correct working and answer	2
•	One application of trapezoidal rule or similar progress	1

#### Sample Answer:

$$A \approx \frac{h}{2} \left( d_f + d_l \right) + \ \frac{h}{2} (d_f + d_l)$$

$$A \approx \frac{8}{2}(5+3) + \frac{8}{2}(3+7)$$

$$A \approx 72 \text{ m}^2$$

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**(b)** (1 mark)

Content: MS-M1.2

Outcomes assessed: MS2-12-4

Targeted Performance Bands: 3-4

Criteria	Marks
Correct explanation	1

# Sample Answer:

The trapezoidal rule calculates the area of a trapezium formed with these dimensions and a straight line. The boundary of the garden is consistently below the trapezium that would be formed so the area calculated is an over-estimation of the area of the garden.

**Question 35** (5 marks)

(a) (3 marks)

Content: MS-F5

Outcomes assessed: MS2-12-5

Targeted Performance Bands: 4-5

1	Criteria	Marks
•	Correct calculation of the FV of the annuity and concluding statement	3
•	Correct calculation of the FV of the annuity	2
	Use of 6.3081 from table or similar progress	1

#### Sample Answer:

 $FV = 6.3081 \times 500$ 

= \$3154.05

The future value of the annuity is greater than \$3100 so Scarlett will have enough money to pay for her holiday.

**(b)** (2 marks)

Content: MS-F5

Outcomes assessed: MS2-12-5

Targeted Performance Bands: 4-5

	Criteria	Marks
•	Correct working and answer	2
	Use of 4.1216 from table	1

#### Sample Answer:

Contribution per period =  $3100 \div 4.1216$ = \$752.14

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Question 36 (2 marks)

Content: MS-S5

Outcomes assessed: MS2-12-7

Targeted Performance Rands: 4-5

Criteria	Marks
Correct working and answer	2
Calculation of mean or similar progress	1

#### Sample Answer:

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

$$-1.75 = \frac{62 - \mu}{8}$$

$$\mu = 76$$

Ivan's mark = 
$$76 + 1.75 \times 8$$
  
=  $90$ 

#### Question 37 (4 marks)

(a) (3 marks)

Content: MS-S4

Outcomes assessed: MS2-12-7

Targeted Performance Bands: 5-6

	Criteria	Marks
•	Correct calculation of the least-squares equation and cost of a 4 year old car	3
•	Correct calculation of the least-squares equation or similar progress	2
•	Partly correct calculation of the equation or similar progress	1

#### Sample Answer:

$$m = -2285$$
  $c = 28460$ 

$$P = 28460 - 2285A$$

When 
$$A = 4$$
,  $P = 28460 - 2285 \times 4$   
= \$19 320

**(b)** (1 mark)

Content: MS-S4

Outcomes assessed: MS2-12-7

Targeted Performance Bands: 3-4

1	Criteria	Marks
•	Correct explanation	1

# Sample Answer:

This is extrapolation - the age of John's car is outside the range of data that was used to form this equation and so the equation is not valid for a car this age.

Question 38 (5 marks)

(a) (3 mark)

Content: MS-F4.1

Outcomes assessed: MS2-12-5

Targeted Performance Bands: 4-5

	Criteria Criteria	Marks
•	Correct working and answer	3
	Correct calculation of amount of interest earned in month 5 or similar progress	2
•	Correct calculation of principal at start of the month 5 or similar progress	1

# Sample Answer:

Principal (start of month 5) = \$494 684.98

Interest (month 5) = 
$$$494684.98 \times 0.3\%$$
  
=  $$1484.05$ 

Withdrawal (month 5) = 
$$494684.98 - 491969.03 + 1484.05$$
  
=  $$4200$ 

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**(b)** (2 marks)

Content: MS-F4.1

Outcomes assessed: MS2-12-5
Targeted Performance Bands: 4-5

Criteria	Marks
Correct working and answer	2
Correct collection of balance after sixth month or similar progress	1

#### Sample Answer:

$$A_6 = A_5 \times 1.003 - 7500$$
  
= 491 969.03 × 1.003 - 7500  
= \$485 944.94

$$A_7 = A_6 \times 1.003 - 7500$$
  
= 485 944.94 × 1.003 - 7500  
= \$479 902.77

#### Disclaime