Cambridge Assessment International Education

Cambridge Primary Progression Test

Mathematics mark scheme

Stage 3

MATHS_MS_S3_5RP

General guidance on marking

Difference in printing

It is suggested that schools check their printed copies for differences in printing that may affect the answers to the questions, for example in measurement questions.

Brackets in mark scheme

When brackets appear in the mark scheme this indicates extra information that is not required for the award of the mark(s).

For example:

A question requiring an answer in grams may have an answer line: ..... grams

The mark scheme will show the word 'grams' in brackets.

These tables give general guidelines on marking learner responses that aren't specifically mentioned in the mark scheme. Any guidance specifically given in the mark scheme supersedes this guidance.

Number and place value

The table shows various general rules in terms of acceptable decimal answers.

Accept
Accept omission of leading zero if answer is clearly shown, e.g. **.675**
Accept tailing zeros, unless the question has asked for a specific number of decimal places, e.g. **0.7000**
Accept a comma as a decimal point if that is the convention that you have taught the learners, e.g. **0,638**

Units

For questions involving quantities, e.g. length, mass, money, duration or time, correct units must be given in the answer. Units are provided on the answer line unless finding the units is part of what is being assessed.

The table shows acceptable and unacceptable versions of the answer 1.85 m.

	Accept	Do not accept
If the unit is given on the answer line, e.g. ..... m	Correct conversions, provided the unit is stated unambiguously, e.g. .....185 cm..... m (this is unambiguous since the unit cm comes straight after the answer, voiding the m which is now not next to the answer)	.....185..... m .....1850..... m etc.
If the question states the unit that the answer should be given in, e.g. 'Give your answer in metres'	1.85 1 m 85 cm	185; 1850 Any conversions to other units, e.g. 185 cm

Money

In addition to the rules for units, the table below gives guidance for answers involving money.

The table shows acceptable and unacceptable versions of the answer $0.30.

	Accept	**Do not accept**
If the amount is in dollars and cents, the answer should be given to two decimal places.	$0.30 For an integer number of dollars it is acceptable not to give any decimal places, e.g. $9 or $9.00	$0.3
If units are not given on the answer line	Any unambiguous indication of the correct amount, e.g. 30 cents; 30 c $0.30; $0-30; $00:30	30 or 0.30 without a unit $30; 0.30 cents Ambiguous answers, e.g. $30 cents; $0.30 c; $0.30 cents (as you do not know which unit applies because there are units either side of the number)
If $ is shown on the answer line	All unambiguous indications, e.g. $.....0.30.....; $.....0-30.....; $.....00:30.....	$.....30..... Ambiguous answers, e.g. $.....30 cents.....; $.....0.30 cents..... **unless** units on the answer line have been deleted, e.g. ~~$~~.....30 cents.....
If cents is shown on the answer line	.....30.....cents	.....0.30.....cents Ambiguous answers, e.g. .....$30 .....cents; .....$0.30 .....cents **unless** units on the answer line have been deleted, e.g. .....$0.30.....~~cents~~

Duration

In addition to the rules for units, the table below gives guidance for answers involving time durations.

The table shows acceptable and unacceptable versions of the answer 2 hours and 30 minutes.

Accept	Do not accept
Any unambiguous indication using any reasonable abbreviations of hours (h, hr, hrs), minutes (m, min, mins) and seconds (s, sec, secs), e.g. 2 hours 30 minutes; 2 h 30 m; 02 h 30 m Any correct conversion with appropriate units, e.g. 2.5 hours; 150 mins **unless** the question specifically asks for time given in hours and minutes	Incorrect or ambiguous formats, e.g. 2.30; 2.3; 2.30 hours; 2.30 min; 2 h 3; 2.3 h (this is because this indicates 0.3, i.e. 18 minutes, of an hour rather than 30 minutes) 02:30 (as this is a 24-hour clock time, not a time interval) 2.5; 150

Time

The table below gives guidance for answers involving time.

The table shows acceptable and unacceptable versions of the answer 07:30.

	Accept	Do not accept
If the answer is required in 24-hour format	Any unambiguous indication of correct answer in numbers, words or a combination of the two, e.g. 07:30 with any or no separator in place of the colon, e.g. 07 30; 07,30; 07-30; 0730	7:30 7:30 am 7 h 30 m 7:3 730 7.30 pm 073 07.3
If the answer is required in 12-hour format	Any unambiguous indication of correct answer in numbers, words or a combination of the two, e.g. 7:30 am with any separator in place of the colon, e.g. 7 30 am; 7.30 am; 7-30 am 7.30 in the morning Half past seven (o'clock) in the morning Accept am or a.m.	Absence of am or pm 1930 am 7 h 30 m 7:3 730 7.30 pm

Negative numbers

The table shows acceptable and unacceptable versions of the answer –2.

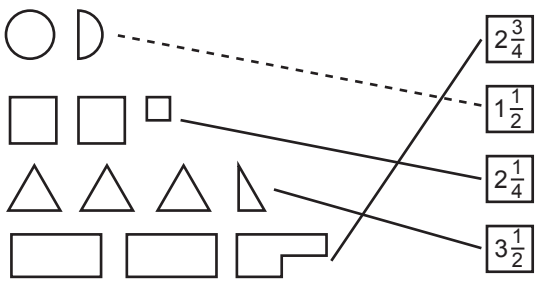
Accept	Do not accept
–2	2–

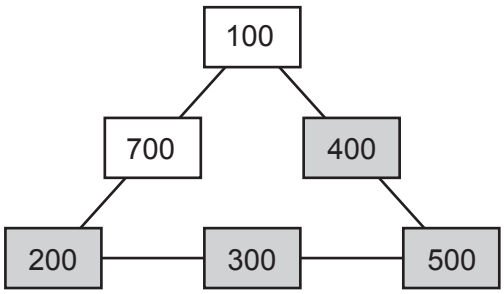
Stage 3 Paper 1 Mark scheme

Question	1		
Part	**Mark**	**Answer**	**Further information**
	1	33, 35, 53, 55	All numbers must be correct for 1 mark.
Total	**1**		

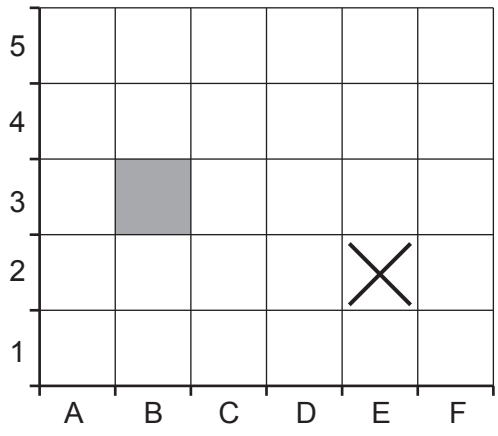
Question	2		
Part	**Mark**	**Answer**	**Further information**
	1	54 + 46 = 100	
Total	**1**		

Question	3		
Part	**Mark**	**Answer**	**Further information**
	1	9 (cm)	Only acceptable answer.
Total	**1**		

Question	4		
Part	**Mark**	**Answer**	**Further information**
	1		All lines must be correct for 1 mark.
Total	**1**		

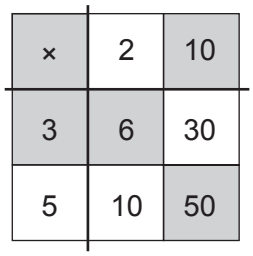
Question	5		
Part	**Mark**	**Answer**	**Further information**
	1		Both answers must be correct for 1 mark.
Total	**1**		

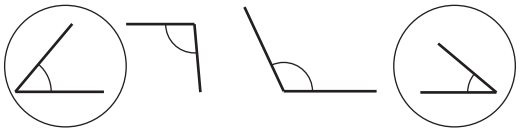
Question	6		
Part	**Mark**	**Answer**	**Further information**
	1	8	
Total	**1**		

Question	7		
Part	**Mark**	**Answer**	**Further information**
	1		Accept any other suitable indication of E2.
Total	**1**		

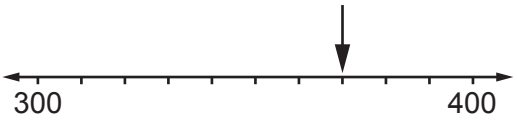
Question	8		
Part	**Mark**	**Answer**	**Further information**
	1	12 (beads)	
Total	**1**		

Question	9		
Part	**Mark**	**Answer**	**Further information**
(a)	1	Saturday	Accept recognisable spellings or abbreviations but do not accept S or Sa.
(b)	1	22 (days)	
Total	**2**		

Question	10		
Part	**Mark**	**Answer**	**Further information**
	2		Award 2 marks for all 4 boxes correct. Award 1 mark for 2 or 3 boxes correct.
Total	**2**		

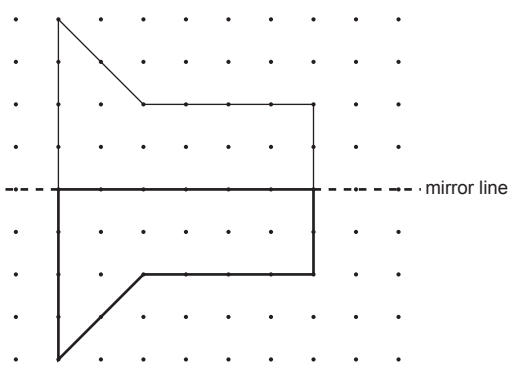
Question	11		
Part	**Mark**	**Answer**	**Further information**
	1		Both angles must be ringed for 1 mark.
Total	**1**		

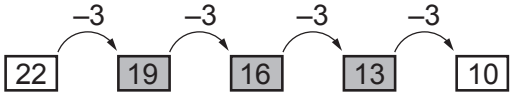
Question	12		
Part	**Mark**	**Answer**	**Further information**
	1	750 (grams)	
Total	**1**		

Question	13		
Part	**Mark**	**Answer**	**Further information**
	1		
Total	**1**		

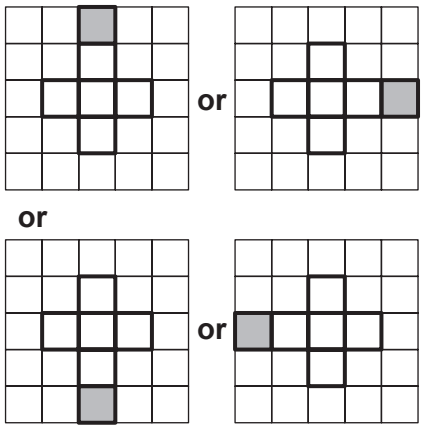
Question	14		
Part	**Mark**	**Answer**	**Further information**
	1	195 < 295 851 > 849 306 < 360	All 3 symbols must be shown for 1 mark.
Total	**1**		

Question	15		
Part	**Mark**	**Answer**	**Further information**
	1	85	
Total	**1**		

Question	16		
Part	**Mark**	**Answer**	**Further information**
	1		Accept slight inaccuracies in drawing provided the overall shape is recognisable.
Total	**1**		

Question	17		
Part	**Mark**	**Answer**	**Further information**
	1		
Total	**1**		

Question	18		
Part	**Mark**	**Answer**	**Further information**
(a)	1	10 (boys)	
(b)	1	17 students can swim (9 + 8) but only 12 students cannot swim (2 + 10)	17 and 12 must be given in the explanation. Accept '17 is greater than 12'.
Total	**2**		

Question	19		
Part	**Mark**	**Answer**	**Further information**
	1		
Total	**1**		

Question	20		
Part	**Mark**	**Answer**	**Further information**
	1	12 (apples)	
Total	**1**		

Question	21		
Part	**Mark**	**Answer**	**Further information**
	1	65	
Total	**1**		

Question	22		
Part	**Mark**	**Answer**	**Further information**
	1	1 4 + 3 6 = 5 0	Award 1 mark for all 4 boxes correct.
Total	**1**		

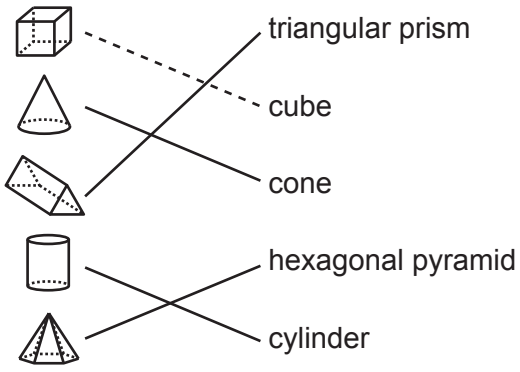
Stage 3 Paper 2 Mark scheme

Question	1		
Part	**Mark**	**Answer**	**Further information**
	1	526 **and** 626	Both answers must be correct for 1 mark.
Total	**1**		

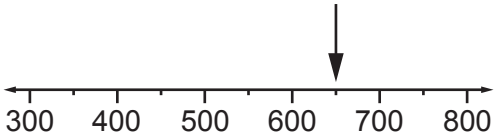
Question	2		
Part	**Mark**	**Answer**	**Further information**
	1	25 → × 10 → 250 34 → × 10 → 340 70 → × 10 → 700	Both answers must be correct for 1 mark.
Total	**1**		

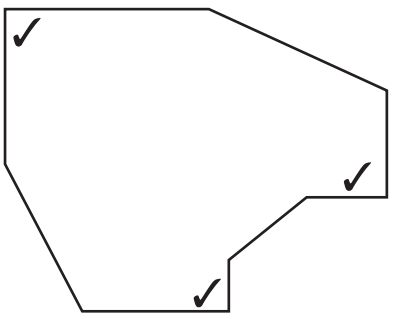
Question	3		
Part	**Mark**	**Answer**	**Further information**
	1	6 (spiders)	
Total	**1**		

Question	4		
Part	**Mark**	**Answer**	**Further information**
	1	539 = ……**5**…… hundreds + 3 tens + ……**9**…… units	Both answers must be correct for 1 mark.
Total	**1**		

Question	5		
Part	**Mark**	**Answer**	**Further information**
	2		Award 2 marks for all 4 lines correct. Award 1 mark for 2 or 3 lines correct.
Total	**2**		

Question	6		
Part	**Mark**	**Answer**	**Further information**
	1	202	
Total	**1**		

Question	7		
Part	**Mark**	**Answer**	**Further information**
	1		
Total	**1**		

Question	8		
Part	**Mark**	**Answer**	**Further information**
	1		All 3 right angles must be shown with no extras for 1 mark.
Total	**1**		

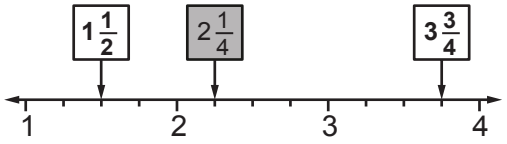
Question	9		
Part	**Mark**	**Answer**	**Further information**
	2	7 × 5 = 35 5 × 7 = 35 35 ÷ 7 = 5 35 ÷ 5 = 7	Award 2 marks for all 3 facts. Award 1 mark for 2 facts. **or** for 5 × 7 = 35 and sight of a division. Accept the facts in any order.
Total	**2**		

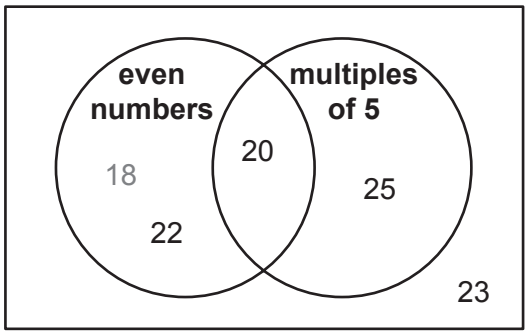
Question	10		
Part	**Mark**	**Answer**	**Further information**
	1	97 (cups)	
Total	**1**		

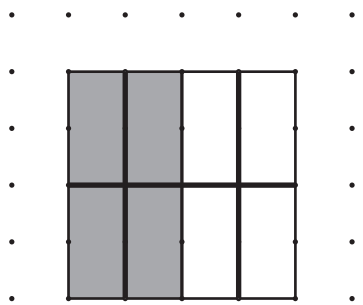
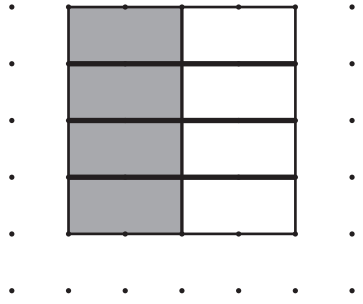
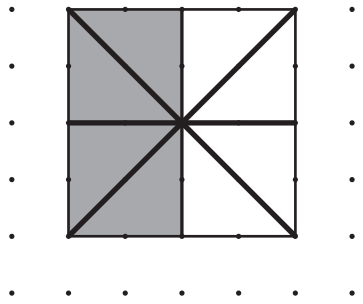
Question	11		
Part	**Mark**	**Answer**	**Further information**
	1	Any 4 triangles shaded.	
Total	**1**		

Question	12		
Part	**Mark**	**Answer**	**Further information**
	2	There are 60 minutes in an hour. — true There are 12 hours in a day. — false There are 60 seconds in a minute. — true There are 25 days in 5 weeks. — false	Award 2 marks for all 4 correct. Award 1 mark for 3 correct.
Total	**2**		

Question	13		
Part	**Mark**	**Answer**	**Further information**
	1	45 + [55] = 85 + 15	
Total	**1**		

Question	14		
Part	**Mark**	**Answer**	**Further information**
	2		Award 1 mark for each correct mixed number. Accept equivalent mixed numbers. Do **not** accept decimal numbers.
Total	**2**		

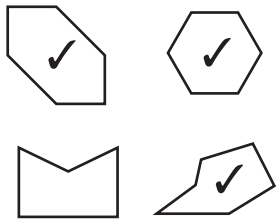
Question	15		
Part	**Mark**	**Answer**	**Further information**
	2		Award 2 marks for 20, 22, 23 and 25 correctly placed. Award 1 mark for 3 out of 20, 22, 23 and 25 correctly placed.
Total	**2**		

Question	16		
Part	**Mark**	**Answer**	**Further information**
(a)	1	Diagram split into 8 equal rectangles or 8 equal triangles by joining dots, e.g.  **or**  **or** 	
(b)	1	An explanation stating that the pieces are not of equal size, • 5 out of 10 pieces are shaded but they are not the same size. • The pieces are not equal.	
Total	**2**		

Question	17		
Part	**Mark**	**Answer**	**Further information**
	1	491 492 493 494 (495) 496 497 498 499 (500) 501 502 503 504 (505) 506 507 508 509 (510) 511	All 4 numbers must be ringed for 1 mark.
Total	**1**		

Question	18		
Part	**Mark**	**Answer**	**Further information**
	2	($)0.25	Award 1 mark for a complete correct method containing any number of arithmetic errors, e.g. $5 – ($4.15 + $0.60) **or** (500c – (415c + 60c))/100 **or** for 25c.
Total	**2**		

Stage 3 Paper 3 Mark scheme

Question	Mark	Answer	Further information
1	1	13	
2	1	407	
3	1		All 3 shapes ticked for 1 mark.
4	1	150	
5	1	1000 (grams)	
6	1	$\frac{3}{4}$	
7	1	15	
8	1	700	
9	1	10:25	Accept twenty five past ten or 35 minutes to 11 or any other correct way of writing the time.
10	1	108	
11	1	5 (children)	
12	1	250	
13	1	562	
14	1	6 mm (6 cm) 6 m 6 km	
15	1	32	
16	1	(Square based) pyramid	
17	1	$5\frac{1}{2}$ or 5.5	
18	1	20 (vehicles)	
19	1	3 (marbles)	
20	1	700 (millilitres)	