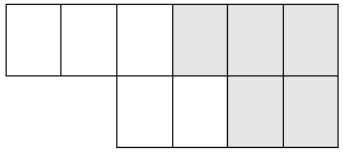
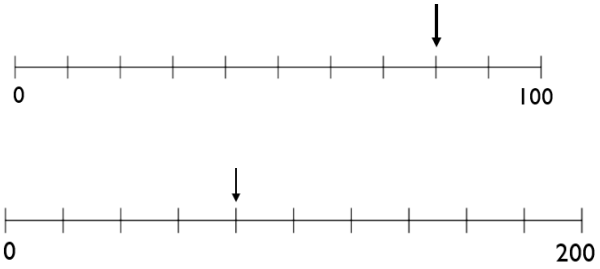
Year 7 Autumn Foundation Paper A

Question	Answer	Marks	Notes and guidance
1	$\frac{4}{7}$ e.g. 	1 1	 Any five squares shaded, or equivalent e.g. ten half-squares shared
2		1 1	Accept any clear indication – arrow, line etc. Allow slight misplacement provided intention is clear.
3	31	1	Do not accept incomplete processing e.g. 15 x 2 + 1
4	740	1	

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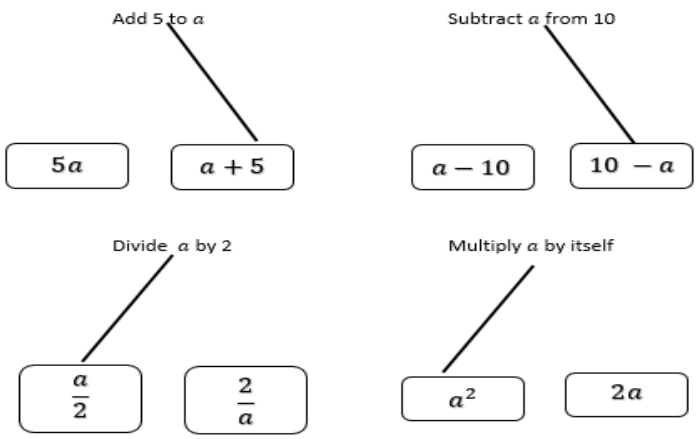
5		3	All four correct – 3 marks 3 correct – 2 marks 2 correct – 1 mark
6	0.31 Any 20 squares shaded in 0.03, 0.2, 0.27, 0.31	1 1 1	 Allow equivalent forms e.g. 0.03, 0.20, 0.27, 0.31
7	4 hundreds (or 400) 4 tenths (or $\frac{4}{10}$) Forty thousand (or 40 000)	1 1 1	Ignore spelling provided intention is clear. Must include 4 or "four" **Special Case** – if all three correct without reference to 4, allow 1 mark out of 3
8	$3a$ $2e+2f$	1 1	 Allow $2f+2e$

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	$3d$	1	
9	Any 8 squares shaded	1	
10	$\frac{7}{10}$	2	Allow 1 mark for: • $\frac{14}{20}$ (Correct number but not simplified) • $\frac{3}{10}$ (Misinterpreted question but simplified)
11	10 5	1 1	Must be fully processed, do not accept e.g. $\frac{50}{10}$
12	< < = e.g. 7, 8, 200	 2 1	All three symbols correct – 2 marks 2 symbols correct – 1 mark Any integer greater than 6
13	75% 70% 0.82	1 1 1	

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	$\frac{7}{20}$	1	Correct answer only – must be simplified
14	$a23$ $\quad$ (6a) $\quad$ a^6 $\quad$ $5a$	1	Accept any clear indication e.g. underlined
15	9 $\quad$ (20) $\quad$ 45 $\quad$ 54 0 $\quad$ 3 $\quad$ (10) $\quad$ 30 8 $\quad$ 12 $\quad$ (36) $\quad$ 62	1 1 1	Accept any clear indication e.g. underlined
16	12 110	1 1	
17	3.5 1	1 1	
18	$\frac{7}{10}$ $\quad$ $\frac{73}{100}$ $\quad$ $\frac{3}{4}$ $\quad$ $\frac{4}{5}$	2	Allow 1 mark for • Correct order but reversed • Correct method shown e.g. all converted to the same form (decimals or equivalent fractions such as hundredths)

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Year 7 Autumn Foundation Paper Mark Scheme B

Question	Answer	Marks	Notes and guidance
1	9	1	
2	67	1	Accept any clear indication – circled, underlined, ticked etc.
3	$\frac{5}{6}$	1	
4	60 marked on number line	1	
	25 marked on number line	1	
	120	1	
5	42	1	
	$x + 5$	1	
	5	1	
	$\frac{1}{6}x$ or $\frac{x}{6}$	1	
6	Completes able correctly i.e. $7c$ $y - 2$ $2 - y$	3	Award 1 mark for each correct entry
7	7514 or 7154	2	Award 1 mark for any other four-digit number with first digit 7 or final digit 4

Year 7 Autumn Foundation Paper Mark Scheme B

8	Matches all airs correctly i.e. $\frac{4}{10}$ and 0.04 $\frac{1}{2}$ and 0.5 $\frac{2}{10}$ and 0.2 $\frac{1}{4}$ and 0.25	2	Award 1 mark for 2 or 3 pairs correctly matched
	75%	1	
9	Two, including at least one subtraction, from: $105 + 38 = 143$ $38 + 105 = 143$ $143 - 105 = 38$ $143 - 38 = 105$	2	Award 1 mark for 1 correct subtraction or two correct additions Ignore extras
	Completes the bar model with 5 in each box	1	
10	9	1	
	11	1	
	16	1	
11	Whitney, with correct explanation e.g. "because $4 \times 6 = 24$"	1	Accept any clear indication – circled, underlined, ticked etc.
12	Completes table correctly with 9,13 and 17	2	Award 1 mark for 2 correct values or 3 values greater than 5 that go up in 4s
	Correct explanation e.g. "The first term is not 4"	1	

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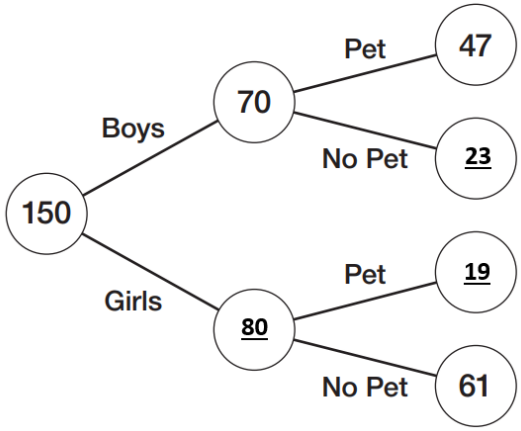
13	Any 13 squares shaded	1	
	Completes all three symbols correctly, i.e. $>$ $>$ $=$	3	Award 1 mark for each correct sign
14	Ticks 2, 5, 8, 11, 14 only	1	Accept any clear indication – circled, underlined, ticked etc.
	101,99,97,95	2	Award 1 mark for 99, 97, 95, 93 or three correct terms
15	34.75	1	
16	29	1	
	30	1	
17	3	2	Award 1 mark for $8x = 24$ seen or implied (e.g. by $24 \div 8$)

Year 7 Spring Foundation Paper

Question	Answer	Marks	Notes and guidance
1	470	1	
2	$\frac{3}{7}$	1	.
	$\frac{2}{8}$ or $\frac{1}{4}$	1	
3	20	1	
	35	1	
4	9	1	
	–7 1 1	2	Award 1 mark for two out of three answers correct
5	3.2	1	
	No, she only ran 14.7 km	1	Must include reason.
6	79	1	
	32	1	
	171	1	

Year 7 Spring Foundation Paper

7		2	Award 1 mark for any two values correct.
	66	1	Follow through 47 + their "19"
8	30 cm^2	2	One mark for 30, one mark for cm^2 (regardless of whether their value for the area is correct).
9	600	1	
	3570	1	
	450	1	
10	22	2	Award 1 mark for fully correct method i.e. attempting to subtract 5×6 and 4×12 from 100
11	1557	2	Award 1 mark for fully correct method with no more than one numerical error.
	12.2	2	Award 1 mark for fully correct method with no more than one numerical error.

Year 7 Spring Foundation Paper

12	1000	1	
	470	1	
	0.47	1	
13	15	1	
	$\frac{5}{9}$	2	Award 1 mark for $\frac{10}{18}$
14	21	2	Award 1 mark for fully correct method e.g. attempt to subtract 10 from 52 and divide their answer by 2
15	$-2a$	1	
	$\frac{3}{4}b$	1	Accept any exact equivalent form e.g. $\frac{6}{8}b, 0.75b$ etc.
16	0.74	1	
	12	1	
	1.1	1	Accept any exact equivalent form e.g. $\frac{11}{10}, 1\frac{1}{10}$ etc.

Year 7 Spring Foundation Paper Mark Scheme

Question	Answer	Marks	Notes and guidance
1	£321	1	
2	$\frac{3}{5}$	1	
	$\frac{2}{7}$	1	
	$\frac{5}{8}$	1	
3	1938 × | 30 | 4 50 | 1500 | 200 7 | 210 | 28 3 4 × 1 | 1 5 | 2 0 | 5 9 | 2 1 | 2 8 | 7 3 8 3 4 × 5 7 2 3 8 1 7 0 0 1 9 3 8	2	Award 1 mark for any correct multiplication method used with only 1 computational error
	357 3 5 7 4 | 1 4 2 8	2	Award 1 mark for any correct multiplication method used with only 1 computational error

Year 7 Spring Foundation Paper Mark Scheme

4	$\frac{2}{3} = \frac{4}{\boxed{6}}$ $\frac{8}{10} = \frac{4}{\boxed{5}}$	2	Award 1 mark for each correct answer
5	-2	1	
	London	1	
	4	2	Award 1 mark for correct method to find the difference between -5 and -1
6	$4a$	1	
	$9b + 5$	1	
	$5c + 2d$	1	Award 1 mark for either term correct in final answer. Do not award marks if answer incorrectly simplified to e.g. $7cd$
7	12	3	Award 1 mark for 53 – 5 or 48 seen Award 1 mark for their 48 ÷ 4
8	70%	2	Award 1 mark for 30% or $\frac{7}{10}$ or $\frac{70}{100}$ seen
9	$\frac{7}{10}$	2	Award 1 mark for attempt to convert so both fractions have a common denominator (e.g. $\frac{3}{5} = \frac{6}{10}$ seen) or decimals (0.6 and 0.1 seen) Allow any equivalent correct answer e.g. $\frac{14}{20}$, 0.7
	$\frac{9}{22}$	2	Award 1 mark for attempt to convert so both fractions have a common denominator Allow any equivalent correct answer e.g. $\frac{18}{22}$

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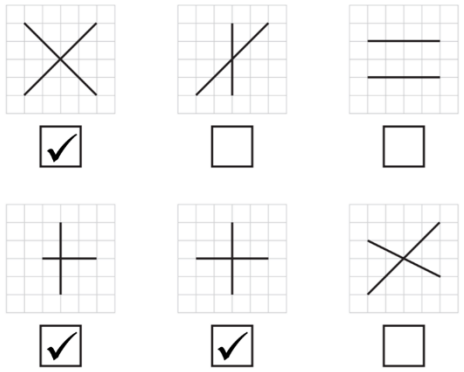
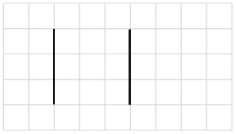
10	475.8 kg, 476.1 kg, 490 kg, 501.2 kg	1	Condone no units seen
	25.4 kg	2	Award 1 mark for attempt to subtract their least value from their greatest value
	1943.1 kg	2	Award 1 mark for correct method e.g. column addition with numbers aligned.
11	136 and 272	2	Award 1 mark for each correct term If their 4th term is incorrect, follow through 5th term as their 4th term doubled correctly.
12	−2	1	
	−8	1	
	8	1	
13	£493.50	3	Award 1 mark for 658 ÷ 4 seen; this may be implied by a bar model Award 2nd mark for attempt to multiply their (658 ÷ 4) by 3 Do not accept £493.5 for the final mark

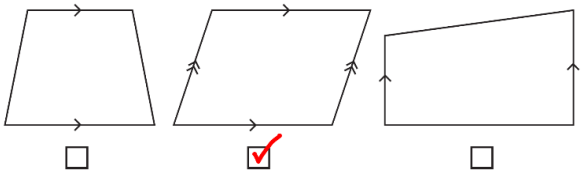
Year 7 Summer Foundation Paper

Question	Answer	Marks	Notes and guidance
1	Indicates all three correct boxes i.e. 	2	Award 1 mark for indicating any two correct boxes with no incorrect
	Draws a pair of parallel lines in the given box e.g.  or etc.	1	
2	$\frac{1}{8}$	1	
	25%	1	
3	8320 83.2	1 1	

4	120°	1	Allow 118 to 122°
	8	1	Allow 7.9 to 8.1 cm
5	Indicates 2, 3 and 5	2	Allow any clear indication – circles, underlines, ticks etc. Award 1 mark for two primes identified and no incorrect OR all three indicated with 1 indicated as well
	Indicates no and gives correct reason e.g. "No whole numbers multiplies by itself to make 30"	1	Any reasonable explanation e.g. "$5^2 = 25, 6^2 = 36$ so it can't be."
6	48	1	
	34	1	
7	$\frac{7}{8}$	1	.
8	445 247	1 1	
9	£34	2	Award 1 mark for fully correct method i.e. attempt to divide 600 by 150 and multiply the result by £8.50
	10 665	1	
	10 000	1	
10	2, 4, 6, 8 1, 2, 3, 4, 6, 12	1 1	Allow numbers in any order Allow numbers in any order
11	Draws correct angle at B (72°)	1	Allow 70 – 74°

12	60 65 86	1 2 2	 Award 1 mark for fully correct method Award 1 mark for fully correct method
13	e.g. 3 x 2 = 6, which is even	1	Any odd x even with answer indicated as even
14	3.1	1	
	13.1	1	
	$\frac{7}{8}$	2	Accept any equivalent form, including 0.875 Award 1 mark for fully correct method
15	14	1	
	–3	2	Award 1 mark for correct first step e.g. $2y = -6$ or $y + 5 = 2$
16	Writes the correct letters all four probabilities: P(Red) = D P(Red or Green) = E P(Yellow) = B P(Orange) = A	3	Allow correct statements written next to the letters. Award 2 marks for any 3 correct letters Award 1 mark for any 2 correct letters

Year 7 Summer Foundation Paper Mark Scheme

Question	Answer	Marks	Notes and guidance
1	24	1	
	9	1	
	2	1	
2	32	1	
	-3	1	
3	e.g.  ☐ ☑ ☐	1	Accept any clear indication, circled, underlined etc.
	110°	2	Award 1 mark for 360 – 250 or 180 – 70 seen
	180°	1	Condone missing degrees symbol
4	$4y$	1	
	$2a + 7b$	2	Allow terms in either order. Award 1 mark for each correct term
	$12w^2$	2	Award 1 mark for w^2 or coefficient of 12 seen
5	4076	1	Allow 4,076 but do not allow comma incorrectly placed
	5	1	
	5	1	

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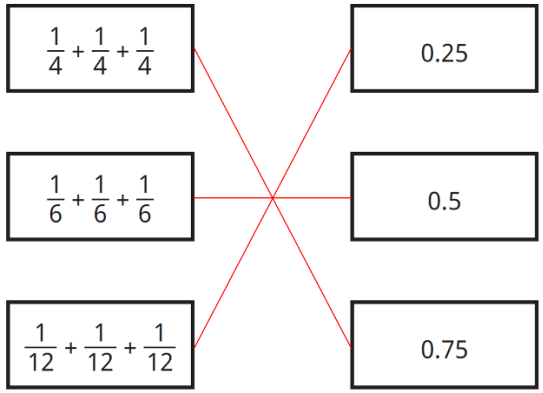
6	Correctly drawn circle with 4 cm radius	2	Allow ± 2 mm Award 1 mark for a circle constructed using pair of compasses with radius of 2 cm
7	100 324	2	Award 1 mark for each correct answer
8	8	1	
	12	2	Award 1 mark for $60 \div 5$ seen
9	e.g.	1	Any two parts of the diagram shaded
10	252	3	Award 1 mark for 3×63 seen Award 1 mark for their "3×63" $+ 63$
11	0.5 or $\frac{1}{2}$	1	
	0.61 or $\frac{61}{100}$	1	
12	40	1	

Year 7 Summer Foundation Paper Mark Scheme

13		2	Award 1 mark for one correct match
14	-3	2	Award 1 mark correct first step e.g. subtracting 11 from both sides of the equation or dividing all three terms by 5
15	O, B, T, U, S, E	1	Condone missing commas provided there are spaces
	R, E, C, T, A, N, G, L	1	Condone missing commas Do not accept duplicate E
	T, E	1	Condone missing comma
16	$\frac{8}{33}$	2	Award 1 mark for correct method with no more than one error, e.g. attempt to find equivalent fractions with common denominator and subtract numerators