

Name	
Form	
Teacher	

Maths

Homework Booklet

Year 7 Summer 2

Set 4,5

Topic	Score achieved	Sparx %
1: Revision	/10	%
2: Revision	/10	%
3: Adding decimals	/20	%
4: Probability	/11	%
5: Probability	/12	%
6: Prime Factors	/28	%
7: Highest Common Factor	/14	%



Week 1

- 1 What is the time 40 minutes before 7.10?
- 2 Work out $3\frac{1}{2} + 2\frac{1}{7}$
- 3 Solve $10 - x = 8$
- 4 Work out 9.7×7
- 5 What is 55% of £940 ?
- 6 Work out 0.033×10
- 7 Complete using $=$, $<$ or $>$ $750 \text{ cm} ? 7.6 \text{ m}$
- 8 Write in ascending order: 0.6, 0.07, 0.74
- 9 List the square numbers between 46 and 117
- 10 Work out $\frac{2}{3} \times \frac{1}{4}$

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Week 2

- 1 What is the time 50 minutes before 4.35?
- 2 Work out $3\frac{1}{4} + 1\frac{7}{9}$
- 3 Solve $x + 10 = 20$
- 4 Work out 29×9
- 5 What is 35% of £400 ?
- 6 Work out 0.066×1000
- 7 Complete using $=$, $<$ *or* $>$ $850\text{ cm} ? 8.6\text{ m}$
- 8 Write in ascending order: 0.66, 0.49, 0.159
- 9 List the first 5 multiples of 6
- 10 Work out $\frac{8}{9} \times \frac{3}{4}$

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Week 3

Question 1: Work out the answers to the following additions

- (a) $4.5 + 2.3$ (b) $8.4 + 1.7$ (c) $0.7 + 0.5$ (d) $2.8 + 10.3$
(e) $13.4 + 28.9$ (f) $206.2 + 72.8$ (g) $6.4 + 15.9$ (h) $0.5 + 0.8 + 0.1$
(i) $9.7 + 1.4 + 1.3$ (j) $16.8 + 3.9 + 102.2 + 87.4$

Question 2: Work out these additions

- (a) $0.14 + 0.53$ (b) $0.35 + 0.65$ (c) $2.47 + 3.34$ (d) $4.93 + 2.25$
(e) $4.77 + 1.84$ (f) $10.38 + 6.81$ (g) $7.83 + 12.49$ (h) $0.56 + 107.08$
(i) $9.85 + 2.63 + 0.89$ (j) $0.08 + 0.12 + 0.87 + 1.93 + 2.06$

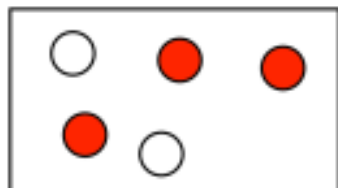
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Week 4

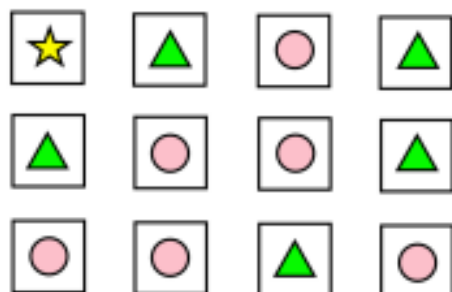
Question 1: Theo has 3 red sweets and 2 white sweets.
He picks a sweet at random.

- (a) Write down the probability that Theo picks a red sweet.
(b) Write down the probability that Theo picks a white sweet.



Question 2: Leah has 12 cards, each with a shape on it.
She takes a card at random.

- (a) What is the probability that Leah takes a card with a star on it?
(b) What is the probability that Leah takes a card with a triangle on it?
(c) What is the probability that Leah takes a card with a circle on it?



Question 3: Ralph has 9 cards, each with a number on it.



He picks a card at random.

Write down the probability that the chosen card is

- (a) the number 8 (b) an even number (c) a number less than 7
(d) a multiple of 4 (e) a square number (f) a prime number

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Week 5

Question 1: Which phrase from the box best describes the likelihood of each of these events?
You may use each phrase more than one.

Impossible Unlikely Even Chance Likely Certain

- (a) Rolling a 9 on an ordinary six sided dice.
- (b) A newborn baby being a boy.
- (c) A day picked at random ending with the letter y
- (d) Getting a tail when a coin is flipped.
- (e) It snowing in London in May.
- (f) Rolling a number greater than 1 on an ordinary six sided dice.

Question 2: Which word from the box best describes the likelihood of each of these events?

Impossible Unlikely Even Likely Certain

- (a) You throw a coin and get a Heads.
- (b) You take a green counter from a bag that only contains black counters.
- (c) May 18th 2018 is the day after May 17th 2017.

Question 3: Here are some cards



Impossible Unlikely Even Likely Certain

A card is picked at random.

Which word from the box best describes the likelihood of each of these events?

- (a) The card has a blue star on it.
- (b) The card has a heart on it.
- (c) The card has a shape on it that is symmetrical.

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Week 6

Question 1: Write each of these numbers as the product of their prime factors.

- (a) 10 (b) 12 (c) 20 (d) 18 (e) 16 (f) 30 (g) 100
(h) 26 (i) 24 (j) 27 (k) 42 (l) 33 (m) 38 (n) 64

Question 2: Write each of these numbers as the product of their prime factors.
Give your answers in index form.

- (a) 36 (b) 40 (c) 28 (d) 48 (e) 80 (f) 200 (g) 75
(h) 32 (i) 105 (j) 81 (k) 52 (l) 242 (m) 108 (n) 500

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Week 7

- Question 1:
- (a) List all the factors of 10
 - (b) List all the factors of 15
 - (c) Write down all the common factors of 10 and 15.

- Question 2:
- (a) List all the factors of 12
 - (b) List all the factors of 18
 - (c) Write down all the common factors of 12 and 18.

- Question 3: Write down all the common factors of each of these pairs of numbers.

- | | | | |
|---------------|---------------|---------------|---------------|
| (a) 6 and 8 | (b) 15 and 20 | (c) 9 and 15 | (d) 7 and 14 |
| (e) 30 and 40 | (f) 21 and 27 | (g) 18 and 30 | (h) 16 and 24 |

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