Monday Find: 1. $3.6 + 2.4 \times 7$ 2. $2^{1}/_{2} + 3^{4}/_{5}$ 3. $^{2}/_{3}$ of $2^{3}/_{4} - \frac{1}{_{3}}$ 4. Remove the brackets and simplify: a. (2f - 3)(3f + 5)b. $(3x + 1)(x - 1) + 2(x^2 - 5)$ 5. Factorise FULLY: a. $3y^3 + 15y$ b. 9p² - 16 c. $f^2 - 6f + 9$ Thursday Find: 1. 4.23 x 5 - 17.9 2. $1^{5}/_{6} \div {}^{3}/_{4}$ 3. $\frac{2}{3} + (\frac{2^3}{4} - \frac{5}{9})$ 4. Remove the brackets and simplify: a. $(3q + 2)^2 - 2q$ b. $(w - 3)(w^2 - 4w + 2)$ 5. Factorise FULLY: a. 5k² - 20 b. a² - 3a - 10 c. $2e^2 + 5e - 3$

Tuesday

- Find:
 - 1. 39.7 1.63 x 20
 - 2. $5^{1}/_{7} 4^{2}/_{3}$
 - 3. $\frac{2}{3} + \frac{2^{3}}{4} \div \frac{5}{6}$
 - 4. Remove the brackets and simplify: a. (5h + 2)(h - 3) b. 4q + (2q - 1)(q - 5)
 - 5. Factorise FULLY:
 - a. $8k^2 24kp$
 - b. 4a² 25
 - c. $e^2 + 8e + 15$

Revision

- Find:
 - 1. 3.1 + 2.6 × 4
 - 2. $3^{5}/_{8} + 4^{2}/_{3}$
 - 3. $\frac{2}{5}$ of $\frac{3^{1}}{2} + \frac{4}{5}$
 - 4. Remove the brackets and simplify: a. $7(y+3) + (2y-3)^2$
 - b. $(3m + 1)(2m 5) 2(m^2 3)$
 - 5. Factorise FULLY:
 - a. 12g² 27
 - b. $9 64b^2$
 - c. $c^2 + 8e 20$

Monday

- A flat is valued at £135,000. If it appreciates at a rate of 2.8% p.a. how much will it be worth after 3 years?
- After a pay rise, Isla's salary increased from £24,500 to £27,100. Express the increase as a percentage of her original salary.
- 3. Find the volume (to 3 s.f.) of
 - a. A cylinder with height 8cm and radius 8cm
 - b. A cone with radius 6cm and height 9cm
- Calculate the radius of a sphere with volume 22,568cm³

Thursday

- A charity distributed 35,000 emergency packs during 2018. This number is expected to increase by 12% each year. How many packs will they expect to distribute in 2023?
- A theatre group sold 4830 tickets, this was 15% more than last year. How many did they sell last year?
- 3. Find the volume of a child's toy with a cone on top of a hemisphere.



Tuesday

- Households in a city produce 75,000 tonnes of waste. The total amount of waste is expected to fall by 7.3% per year. Calculate the total amount of waste produced in 4 years time.
- A car bought for £15,000 is later sold for £9,800. Calculate the decrease as a percentage of the original price.
- 3. Find the volume (to 3 s.f.) of
 - a. A hemi-sphere with radius 5.3cm
 - b. A cone with diameter 16cm and height 19cm
- 4. Calculate the height of a cone with a radius of 7 cm and a volume 15,800cm³

- 1. A drinks manufacturer is reducing the sugar, by 9% each year for 3 years, of it's fizzy drink. The sugar content is currently 45g. Calculate the sugar content after 3 years?
- James paid £297.50 for a laptop in the sale. The discount in the sale was 15%. Calclaute the original price.
- 3. A container to hold chocoloates is in the shape of part of a cone.



Monday

- 1. Find the equation of the line passing through the points (-3, 5) and (7, 1).
- A straight line has equation
 3y 7x = 9. Find:
 - a. The gradient
 - b. The coordinates of the y-intercept
- A straight line has equation
 2y + 4x = 16. Find where the line crosses the x-axis.
- 4. Change the subject of the formulaF = 2a b, to a.
- 5. Change the subject of the formula $K = 3P^2 + 2$, to P.

Thursday

1. Find the equation of the line AB shown below.



- A straight line has equation
 2x 3y = 15. Find:
 - a. The gradient
 - b. The coordinates of the y-intercept
- 3. Change the subject of the formula $D = \frac{k - m}{t} \text{ to } k.$

Tuesday

- 1. Find the equation of the line passing through the points (-4, 2) and (-1, 4).
- 2. A straight line has equation
 3x + 2y 4 = 0.
 Find the gradient of this line.
- A straight line has equation
 2x 5y = 20. Find the cooridnates of the point where the line crosses the y-axis.
- 4. Change the subject of the formula $y = g\sqrt{x} + h$, to x.
- 5. Change the subject of the formula $F = t^2 4c$, to c.

- 1. Find the equation of the line joining the points (-2, 5) and (3, 15).
- A straight line has equation
 5y 3x = 21. Find where the line crosses the x-axis.
- Change the subject of the formula m = 3p + 4b, to p.
- 4. Change the subject of the formula $p = \frac{mv^2}{2}$, to v.

Week 4

Monday 1. Solve the simultaneous equations a. 2x + 4y = 24b. 5x + y = -2a. 4x - 3y = 18 7x - 2y = 4 3x + 2y = 32x + 6y = -62. Find the mean and standard deviation (s.d.) of:- 3 4 4 7 10 of:-3. The number of cars sold over a year by each salesman at a local garage was recorded as: 7 15 10 24 3 10 a. Find the mean and s.d. b. The salesmen were then given training to help improve their sales. The next they had a mean of 19 and a SD of 6.63. Make two comparisons between the data. Thursday 1. Solve the simultaneous equations a. 2x + 3y = 1b. 2a - 8b = 05x - 2y = -265a - 5b = 159x - 7y = -12. Find the mean and standard deviation (s.d.) 10 15 9 18 22 of:of:-3. Five sunflowers were grown from seeds and

- their maximum heights (cm) were recorded as: 69 85 72 51 65
 - a. Find the mean and s.d.
 - b. After adding a new plant food the next batch of sunflowers had a mean height of 92.2 cm with a SD of 7.79. Make two comparisons between the data.

Tuesday

- 1. Solve the simultaneous equations
 - b. 2x 3y = 103x - 6y = 18
- 2. Find the mean and standard deviation (s.d.) 8 10 15 16 17
- 3. The number of salmon caught in a local river over a 6-week period was recorded as: 13 22 29 39 32 27
 - a. Find the mean and s.d.
 - b. A year later, the number of salmon caught over the same 6-week period had a mean of 18 and a SD of 5.66. Make two comparisons between the data.

- 1. Solve the simultaneous equations a. -2x + 3y = 6b. 3a + 2b = -11 4a + 3b = -14
- 2. Find the mean and standard deviation (s.d.) 70 76 72 91 77
- 3. At 8am on Monday, the temperarature ($^{\circ}C$) in 5 classrooms was recorded as:
 - 185 191 172 189 188
 - a. Find the mean and s.d.
 - b. The heating was then turned on and the following week the mean temperature was 20 °C with a SD of 1.09 °C. Make two comparisons between the data.

Monday

- 1. Multiply the brackets and simplify
 - a. (2x + 1)(x 3)
 - b. 4h + (h 4)²
 - c. 5 (3x 2)(x + 5)
 - d. (x + 3)(5x² x 1)
- In a local cafe, Claire ordered 3 teas and 2 coffees which cost her £6.60. Jemma ordered 2 teas and 1 coffee which cost her £3.92. Find the cost of a tea and a coffee.
- Express with a rational denominator in it's simplest form:
 - a. $\frac{4}{\sqrt{3}}$

b. $\frac{3}{\sqrt{5}}$

Thursday

α.

- 1. Multiply the brackets and simplify
 - a. (5x + 2)(3x 1)
 - b. (7m 3)(m + 6)
 - c. 3x + 5(x + 3)(x 1)
 - d. $(4x 1)(2x^2 3x 5)$
- John bought 7 bags of cement and 3 bags of gravel, the weight was 215kg. Shona bought 5 bags of cement and 4 bags of gravel, the weight was 200kg. Find the weight of a bag of cement and a bag of gravel.
- Express with a rational denominator in it's simplest form:

$$\frac{3}{\sqrt{2}}$$
 b. $\frac{7}{\sqrt{6}}$

Tuesday

- 2. Multiply the brackets and simplify
 - a. (3x + 2)(x 5)
 - b. 5h + (2h 1)²
 - c. 8 (2x 1)(2x + 3)
 - d. (7a² + 2a 1)(5 2a)
- In a local cafe, Claire ordered 2 teas and 1 coffee which cost her £3.55. Jemma ordered 3 teas and 2 coffees which cost her £5.95. Find the cost of a tea and a coffee.
- Simplify

 a. √12
 b. √45

c.
$$\sqrt{3} + \sqrt{27}$$

d. $7\sqrt{5} - \sqrt{20}$

- 1. Multiply the brackets and simplify
 - a. (5x + 4)(x 6)
 - b. 15 (5x 2)(3x + 1)
 - c. 7x + 2(2x + 3)(3x 1)
 - d. $(4x + 3)(2x^2 5x 1)$
- In a local cafe, Claire ordered 3 teas and 2 coffees which cost her £5.55. Jemma ordered 4 teas and 1 coffee which cost her £5.40. Find the cost of a tea and a coffee.
- 3. Simplify a. $\sqrt{75}$ b. $\sqrt{32}$ c. $\sqrt{24} + \sqrt{600}$ d. $9\sqrt{3} - \sqrt{27}$



Week 7

Tuesday 1. Fully factorise a. $9p^2 - 16q^2$ b. $a^2 - 7a + 12$ c. $w^2 + 6w - 27$ d. $5x^3 - 20x$ a. $3w^2 - 24w = 60$
e. $3x^{2} - 24x - 60$ f. $2x^{2} + 7x - 4$ 2. Express in the form $(x + a)^{2} + b$ b. $x^{2} - 10x + 2$ b. $x^{2} + 4x + 1$ b. $x^{2} - 2x$
 3. For the function f(x) = 3x - 2, find, a. f(3) b. f(-5) c. If f(p) = 40, find 'p'
Weekend/Extension 1. Fully factorise a. $49 - 4x^2$ b. $a^2 - 9a + 20$ c. $5a^2 - 20b^2$ d. $3u^2 + 9u - 12$ e. $2x^2 - 2x - 144$ f. $3x^2 - x - 14$
$(x + a)^2 + b$

a. 9p² - 16q² b. a² - 7a + 12 c. $w^2 + 6w - 27$ d. 5x³ - 20x e. 3x² - 24x - 60 f. $2x^2 + 7x - 4$ press in the form $(x + a)^2 + b$ $x^{2} + 4x + 1$ b. x² - 2x - 3 r the function <) = 3x - 2, find, f(3) f(-5) If f(p) = 40, find 'p' end/Extension ly factorise a. 49 - 4x²

b. x² - 14x - 1



















Week 17

Monday

- 1. Solve the simultaneous equations
- a. 3x + 4y = -7 b. 3p 2q = 11 2x + y = -3 7p + 8q = 51
- 2. Find the intersection of
 a. 4x + 3y = 5 and 10x 2y = 3
 b. 11x 3y = 8 and 9x + 4y = 13
- After a pay rise, Iona's salary increased from £24,510 to £27,109. Express the increase as a percentage of her original salary.
- 4. For each parabola, state the turning point and calculate the y-intercept.
 - a. $y = (x 1)^2 + 10$
 - b. $y = (x + 2)^2 24$

Thursday

- 1. Solve the simultaneous equations
- a. 2x 3y = 23 7x + 6y = -2 b. 4p - q = 16 2p - 5q = 26
- 2. Find the intersection of
- a. 4x + y = 22 and 3x 7y = 1
- b. 2x 6y = 4 and 7x 4y = -20
- After a pay rise, George's salary increased from £6,118 to £7,305. Express the increase as a percentage of his original salary.
- 4. For each parabola, state the turning point and calculate the y-intercept.

Tuesday

- 1. Solve the simultaneous equations
- a. 5x + 2y = 11 b. 7p 3q = 45
 - 3x 4y = 17 2p + 4q = 8
- 2. Find the intersection of
- a. 3x + 4y = -9 and 5x 3y = 14
- b. 2x y = 11 and 7x 5y = 34
- After a pay rise, Louise's salary increased from £18,500 to £22,350. Express the increase as a percentage of her original salary.
- 4. For each parabola, state the turning point and calculate the y-intercept. a. $y = (x + 7)^2 - 5$
 - b. $y = x^2 13$

Weekend/Extension

- 1. Solve the simultaneous equations
- a. 6x + 2y = 143x + 4y = 1b. 3p - 2q = -193p - 7q = -29
- 2. Find the intersection of
 a. 3x 2y = -5 and 5x + y = 22
 - b. 7x 5y = -27 and 3x 4y = -6
- After a change in job, Matin's salary decreased £31,500 to £30,657.
 Express the decrease as a percentage of her original salary.
- 4. For each parabola, state the turning point and calculate the y-intercept.

a. $y = (x - 2)^2 + 16$ b. $y = -25 - (x + 0.5)^2$

Monday

- A house is valued at £135,000. If it appreciates at a rate of 2.8% p.a. how much will it be worth after 7 years.
- A factory produces 4,780 tonnes of CO₂ emissions. If it reduces it's emissions by 11.3% per annum after how many years will it be till it's emissions have halved?
- 3. Solve the following quadratic equations by factorising:
 - a. $x^2 + 5x = 0$
 - b. x² 64 = 0
 - c. $x^2 + 2x 3 = 0$
 - d. $2x^2 5x 12 = 0$

Thursday

- 1. A house is valued at £1,750,000. If it appreciates at a rate of 0.9% p.a. how much will it be worth after 20 years.
- A factory produces 3780 tonnes of CO₂ emissions. If it reduces it's emissions by 20.2% per annum after how many years will it be till it's emissions have halved?
- 3. Solve the following quadratic equations by factorising:
 - a. $x^2 + 3x = 10$ b. $x^2 = 4x + 21$
 - c. $4x^2 7x = 2$
 - d. $2x^2 = 8$

Tuesday

- A house is valued at £250,000. If it appreciates at a rate of 1.3% p.a. how much will it be worth after 9 years.
- A factory produces 7,420 tonnes of CO₂ emissions. If it reduces it's emissions by by 14.7% per annum after how many years will it be till it's emissions have halved?

3. Solve the following quadratic equations by factorising:

a. $3x^{2} + 6x = 0$ b. $4x^{2} - 1 = 0$ c. $x^{2} + 8x + 16 = 0$ d. $3x^{2} - 2x = 16$

Extension

- 1. A house is valued at £261,375. If it appreciates at a rate of 0.15% p.a. how much will it be worth after 6 years.
- A factory produces 10,890 tonnes of CO₂ emissions. If it reduces it's emissions by by 18.6% per annum after how many years will it be till it's emissions have halved?
- 3. Solve the following quadratic equations by factorising:
 - a. $5x^2 20x = 0$ b. $100 - 36x^2 = 0$ c. $x^2 = 2x + 3$ d. $3x^2 = 6$

Week 19

Monday

- 1. Expand the brackets and simplify
 - a. $(p + 4)(p^2 + 3p + 6)$
 - b. 5(2x + 3)(x + 9)
 - c. 4h + (3h + 7)(h + 6)
 - d. $(2w 9)(3w^2 4w + 6)$

2. The data below shows the heights (in cm) of pupils in a class.

132121134128140119134131130126152136137134134127

a. Find the 5 figure summary b. Hence find the semi-interquartile range.

Tuesday

- 1. Expand the brackets and simplify
 - a. (2p + 1)(p² + 5p + 1)
 - b. 3(3x + 1)(x + 3)
 - c. 6h + (3h + 2)(h + 1)
 - d. $(4w 3)(3w^2 2w + 2)$

2. The data below shows the heights (in cm) of pupils in a class.

- 117114117126108121103115126105113109122130116132
- a. Find the 5 figure summary
- b. Hence find the semi-interquartile range.

Thursday

- 1. Expand the brackets and simplify
 - a. $(p + 5)(2p^2 + p + 2)$
 - b. 6(2x + 4)(5x + 1)
 - c. 3h + (2h + 5)(7h + 1)
 - d. $(3w 5)(2w^2 4w + 3)$

2. The data below shows the heights (in cm) of pupils in a class.

956 93 75 81 86 94 77 68 95 67 101 88 76 94 93 100 87

a. Find the 5 figure summary

b. Hence find the semi-interquartile range.

Weekend/Extension



2. The data below shows the heights (in cm) of pupils in a class.

154 163 132 144 156 148 166 155 155 138 145 168 174 160 153 149

a. Find the 5 figure summary

b. Hence find the semi-interquartile range.

Week 20

Monday

- 1. Expand the brackets and simplify
 - a. 4 3(g 6)(g + 8)
 - b. (3r 9)(r + 7) (r + 1)
- 2. The data below represents the boot sizes of trekkers on an African expedition.
 - 9 10 10 9 11 8 9 10 10 10 11
 - a. Find the 5 figure summary and SIQR.

Trekkers on a hike in Europe had a median boot size of 8.5 and a SIQR of 3.5.

- b. Make two statements comparing the trekkers.
- 3. Find the roots of the following functions: a. $y = 2x^2 + 4x$ b. $y = 9x^2 - 36$

Thursday

- 1. Expand the brackets and simplify
 - a. 8 5(g 6)(g + 7)
 - b. (2r-5)(2r+7) (7r+1)
- 2. The data below represents the boot sizes of trekkers on an African expedition.

3 5 6 10 8 7 9 10 8 4

a. Find the 5 figure summary and SIQR.

Trekkers on a hike in Europe had a median boot size of 4.5 and a SIQR of 7.5

b. Make two statements comparing the trekkers.

3. Find the roots of the following functions: a. $y = 7x^2 - 28$ b. $y = 3x^2 - 19x + 6$

Tuesday

- 1. Expand the brackets and simplify
 - a. 6 2(g 6)(2g + 1)

2. The data below represents the boot sizes of trekkers on an African expedition.

7 5 4 7 10 6 11 8 9 10 5

a. Find the 5 figure summary and SIQR.

Trekkers on a hike in Europe had a median boot size of 10.5 and a SIQR of 3

- b. Make two statements comparing the trekkers.
- 3. Find the roots of the following functions: a. $y = x^2 - 5x + 4$ b. $y = 2x^2 - x - 21$

Weekend/Extension

- 1. Expand the brackets and simplify
 - a. 9 9(g 1)(2g + 5)
 - b. (7r 3)(5r + 2) (9r + 15)
- 2. The data below represents the boot sizes of trekkers on an African expedition.

12 10 9 11 15 6 10 9 12 10 5 11

a. Find the 5 figure summary and SIQR.

Trekkers on a hike in Europe had a median boot size of 8 and a SIQR of 0.5

b. Make two statements comparing the trekkers.

4. Find the roots of the following functions: a. $y = 6x^2 + 6$ b. $y = 35 + 2x - x^2$



S4 National	5	Daily	Homework
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Monday 1. Factorise fully b. t ² - 81 b. 48k ² - 27p ² c. b ² - 5b + 4 d. y ² + 3y - 4 e. 2q ² + 6q + 4 f. 2y ² - 9y - 5	Tuesday4. Factorise fullyb. $t^2 - 36$ c. $b^2 - 7b + 6$ d. $y^2 + 4y - 5$ e. $2q^2 + 8q + 6$ f. $y^2 - y - 6$
 2. Factorise fully a. y² - 100 b. e² - 8e + 15 c. 5d² + 8d + 3 	 5. Factorise fully a. y² - 49 b. e² - 9e + 18 c. 3d² - 25d - 18
 3. A parabola is given by the equation y = x² - 6x + 5 a. Write in the form y = (x - a)² + b b. Hence, state the coordinate of the turning point and its nature. c. Write down the equation of the axis of symmetry 	 6. A parabola is given by the equation y = x² + 2x + 10 a. Write in the form y = (x - a)² + b b. Hence, state the coordinate of the turning point and its nature. c. Write down the equation of the axis of symmetry
Thursday	Weekend/Extension
1. Factorise fullyb. $t^2 - 100$ c. $b^2 - 12b + 11$ d. $y^2 + 9y - 10$ e. $2q^2 + 10q + 8$ f. $y^2 - y - 12$	4. Factorise fully b. $t^2 - 225$ b. $10k^2 - 100p^2$ c. $b^2 - 15b + 14$ d. $y^2 + 21y - 22$ e. $2q^2 + 18q + 16$ f. $4y^2 - 18y - 10$
2. Factorise fully a. 5y ² - 45 b. e ² - 11e + 24 c. 30d ² - d - 1	5. Factorise fully a. y ² - 625 b. e ² - 47e + 90 c. 4d ² - 11d - 3
 3. A parabola is given by the equation y = x² - 3x - 5 a. Write in the form y = (x - a)² + b b. Hence, state the coordinate of the turning point and its nature. c. Write down the equation of the axis of symmetry 	 6. A parabola is given by the equation y = x² - x - 10 a. Write in the form y = (x - a)² + b b. Hence, state the coordinate of the turning point and its nature. c. Write down the equation of the axis of symmetry

Mo	onday	Tuesday
1.	A house is valued at £135,000. If it appreciates at a rate of 2.8% p.a. how much will it be worth after 7 years.	 A house is valued at £250,000. If it appreciates at a rate of 1.3% p.a. how much will it be worth after 9 years.
2.	After a pay rise, Iona's salary increased from £24,510 to £27,109. Express the increase as a percentage of her original salary.	 After a pay rise, Louise's salary increased from £18,500 to £22,350. Express the increase as a percentage of her original salary.
3.	A factory produces 4,780 tonnes of CO ₂ emissions. If it reduces it's emissions by 11.3% per annum after how many years will it be till it's emissions have halved?	 A factory produces 7,420 tonnes of CO₂ emissions. If it reduces it's emissions by by 14.7% per annum after how many years will it be till it's emissions have halved?
4.	By using the discriminant, determine the nature of the roots: a. $y = 2x^2 + 6x + 1$ b. $y = 3x^2 + x + 2$	 6. By using the discriminant, determine the nature of the roots: a. y = x² - 12x + 36 b. y = 2x² - 2x + 5
Tł	ursday	Extension
т н 1.	A house is valued at £1,750,000. If it appreciates at a rate of 0.9% p.a. how much will it be worth after 20 years.	 Extension 4. A house is valued at £261,375. If it appreciates at a rate of 0.15% p.a. how much will it be worth after 6 years.
1. 2.	A house is valued at £1,750,000. If it appreciates at a rate of 0.9% p.a. how much will it be worth after 20 years. After a pay rise, George's salary increased from £6,118 to £7,305. Express the increase as a percentage of his original salary.	 Extension 4. A house is valued at £261,375. If it appreciates at a rate of 0.15% p.a. how much will it be worth after 6 years. 5. After a change in job, Matin's salary decreased £31,500 to £30,657. Express the decrease as a percentage of her original salary.
1. 2. 3.	A house is valued at £1,750,000. If it appreciates at a rate of 0.9% p.a. how much will it be worth after 20 years. After a pay rise, George's salary increased from £6,118 to £7,305. Express the increase as a percentage of his original salary. A factory produces 3780 tonnes of CO ₂ emissions. If it reduces it's emissions by 20.2% per annum after how many years will it be till it's emissions have halved?	 Extension A house is valued at £261,375. If it appreciates at a rate of 0.15% p.a. how much will it be worth after 6 years. After a change in job, Matin's salary decreased £31,500 to £30,657. Express the decrease as a percentage of her original salary. A factory produces 10,890 tonnes of CO₂ emissions. If it reduces it's emissions by by 18.6% per annum after how many years will it be till it's emissions have halved?
1. 2. 3.	A house is valued at £1,750,000. If it appreciates at a rate of 0.9% p.a. how much will it be worth after 20 years. After a pay rise, George's salary increased from £6,118 to £7,305. Express the increase as a percentage of his original salary. A factory produces 3780 tonnes of CO_2 emissions. If it reduces it's emissions by 20.2% per annum after how many years will it be till it's emissions have halved? By using the discriminant, determine the nature of the roots: c. $y = x^2 - 13x + 45$	 Extension A house is valued at £261,375. If it appreciates at a rate of 0.15% p.a. how much will it be worth after 6 years. After a change in job, Matin's salary decreased £31,500 to £30,657. Express the decrease as a percentage of her original salary. A factory produces 10,890 tonnes of CO₂ emissions. If it reduces it's emissions by by 18.6% per annum after how many years will it be till it's emissions have halved? By using the discriminant, determine the nature of the roots: a. y = 2x² - 3x + 9













Monday		Tuesday	
1. Factorise fully		1. Factorise fully	
a. x ² - 49	b. y² - 5y - 36	a. x ² - 121	b. y² - 3y - 54
c. 2† ² + 4† + 2	d. $s^2 - r^2$	c. 2t ² + 24t + 22	d. p² - q⁴
e. 6p² + 12p - 48	f. 6y² + 17y - 3	e. 5p² - 10p - 40	f. 4y ² + 12y + 9
2. Factorise fully		2. Factorise fully	
a. 2x ² + 5x + 3	b. 18y² - 12y - 48	a. 4x² + 14x + 6	b. 6y² - 15y + 6
	SA	R	
	NA		
		and the second se	
Thursday 1. Factorise fully	(7)	Extension 1. Factorise fully	
Thursday 1. Factorise fully a. x ² - 144	b. y ² - 12y - 45	Extension 1. Factorise fully a. 2x ² - 98	b. y ² - 4y - 21
Thursday 1. Factorise fully a. x ² - 144 c. 4t ² + 8t + 4	b. y² - 12y - 45 d. 4s² - m²	Extension 1. Factorise fully a. 2x ² - 98 c. 2t ² - 18t + 40	b. y² - 4y - 21 d. 9p² - 16q²
Thursday 1. Factorise fully a. x ² - 144 c. 4t ² + 8t + 4 e. 2p ² + 30p + 100	b. y ² - 12y - 45 d. 4s ² - m ² f. 4y ² + 3y - 7	Extension 1. Factorise fully a. $2x^2 - 98$ c. $2t^2 - 18t + 40$ e. $2p^2 + 22p + 48$	b. y ² - 4y - 21 d. 9p ² - 16q ² f8y ² - 2y + 3
Thursday 1. Factorise fully a. $x^2 - 144$ c. $4t^2 + 8t + 4$ e. $2p^2 + 30p + 100$ 2. Eactorise fully	b. y ² - 12y - 45 d. 4s ² - m ² f. 4y ² + 3y - 7	Extension 1. Factorise fully a. $2x^2 - 98$ c. $2t^2 - 18t + 40$ e. $2p^2 + 22p + 48$ 2. Eactorise fully	b. y ² - 4y - 21 d. 9p ² - 16q ² f8y ² - 2y + 3
Thursday 1. Factorise fully a. $x^2 - 144$ c. $4t^2 + 8t + 4$ e. $2p^2 + 30p + 100$ 2. Factorise fully	b. $y^2 - 12y - 45$ d. $4s^2 - m^2$ f. $4y^2 + 3y - 7$	Extension 1. Factorise fully a. $2x^2 - 98$ c. $2t^2 - 18t + 40$ e. $2p^2 + 22p + 48$ 2. Factorise fully	b. $y^2 - 4y - 21$ d. $9p^2 - 16q^2$ f. $-8y^2 - 2y + 3$ b. $4m^2$, $7mn$, $2n^2$
 Thursday Factorise fully a. x² - 144 c. 4t² + 8t + 4 e. 2p² + 30p + 100 Factorise fully a. 14c² - 56d² 	b. y ² - 12y - 45 d. 4s ² - m ² f. 4y ² + 3y - 7 b. 10y ² - y - 3	Extension 1. Factorise fully a. $2x^2 - 98$ c. $2t^2 - 18t + 40$ e. $2p^2 + 22p + 48$ 2. Factorise fully a. $4i^2 + 21i - 18$	b. y ² - 4y - 21 d. 9p ² - 16q ² f8y ² - 2y + 3 b. 4m ² - 7mn - 2n ²
 Thursday Factorise fully a. x² - 144 c. 4t² + 8t + 4 e. 2p² + 30p + 100 Factorise fully a. 14c² - 56d² 	b. y ² - 12y - 45 d. 4s ² - m ² f. 4y ² + 3y - 7 b. 10y ² - y - 3	Extension 1. Factorise fully a. $2x^2 - 98$ c. $2t^2 - 18t + 40$ e. $2p^2 + 22p + 48$ 2. Factorise fully a. $4i^2 + 21i - 18$	b. y ² - 4y - 21 d. 9p ² - 16q ² f8y ² - 2y + 3 b. 4m ² - 7mn - 2n ²
 Thursday Factorise fully a. x² - 144 c. 4t² + 8t + 4 e. 2p² + 30p + 100 Factorise fully a. 14c² - 56d² 	b. y ² - 12y - 45 d. 4s ² - m ² f. 4y ² + 3y - 7 b. 10y ² - y - 3	Extension 1. Factorise fully a. $2x^2 - 98$ c. $2t^2 - 18t + 40$ e. $2p^2 + 22p + 48$ 2. Factorise fully a. $4i^2 + 21i - 18$	b. y ² - 4y - 21 d. 9p ² - 16q ² f8y ² - 2y + 3 b. 4m ² - 7mn - 2n ²
 Thursday Factorise fully a. x² - 144 c. 4t² + 8t + 4 e. 2p² + 30p + 100 Factorise fully a. 14c² - 56d² 	b. y ² - 12y - 45 d. 4s ² - m ² f. 4y ² + 3y - 7 b. 10y ² - y - 3	Extension 1. Factorise fully a. $2x^2 - 98$ c. $2t^2 - 18t + 40$ e. $2p^2 + 22p + 48$ 2. Factorise fully a. $4i^2 + 21i - 18$	b. y ² - 4y - 21 d. 9p ² - 16q ² f8y ² - 2y + 3 b. 4m ² - 7mn - 2n ²
 Thursday Factorise fully x² - 144 4t² + 8t + 4 2p² + 30p + 100 Factorise fully a. 14c² - 56d² 	b. y ² - 12y - 45 d. 4s ² - m ² f. 4y ² + 3y - 7 b. 10y ² - y - 3	Extension 1. Factorise fully a. $2x^2 - 98$ c. $2t^2 - 18t + 40$ e. $2p^2 + 22p + 48$ 2. Factorise fully a. $4i^2 + 21i - 18$	b. y ² - 4y - 21 d. 9p ² - 16q ² f8y ² - 2y + 3 b. 4m ² - 7mn - 2n ²
 Thursday Factorise fully x² - 144 4t² + 8t + 4 2p² + 30p + 100 Factorise fully a. 14c² - 56d² 	b. y ² - 12y - 45 d. 4s ² - m ² f. 4y ² + 3y - 7 b. 10y ² - y - 3	Extension 1. Factorise fully a. $2x^2 - 98$ c. $2t^2 - 18t + 40$ e. $2p^2 + 22p + 48$ 2. Factorise fully a. $4i^2 + 21i - 18$	b. y ² - 4y - 21 d. 9p ² - 16q ² f8y ² - 2y + 3 b. 4m ² - 7mn - 2n ²
 Thursday Factorise fully x² - 144 4t² + 8t + 4 2p² + 30p + 100 Factorise fully a. 14c² - 56d² 	b. y ² - 12y - 45 d. 4s ² - m ² f. 4y ² + 3y - 7 b. 10y ² - y - 3	Extension 1. Factorise fully a. $2x^2 - 98$ c. $2t^2 - 18t + 40$ e. $2p^2 + 22p + 48$ 2. Factorise fully a. $4i^2 + 21i - 18$	b. y ² - 4y - 21 d. 9p ² - 16q ² f8y ² - 2y + 3 b. 4m ² - 7mn - 2n ²