

Name:

Due in: September

## Section A: Surds

1 Simplify:  $\sqrt{3} + \sqrt{3}$

A 3

B  $2\sqrt{3}$

C  $\sqrt{6}$

D 6

Your answer to question 1:

2 Simplify:  $\sqrt{3} \times \sqrt{3}$

A  $2\sqrt{3}$

B 9

C 6

D 3

Your answer to question 2:

3 Simplify:  $\sqrt{12}$

A  $2\sqrt{3}$

B  $4\sqrt{3}$

C  $3\sqrt{2}$

D  $3\sqrt{3}$

Your answer to question 3:

4 Simplify:  $\sqrt{25}$

A 625

B  $\sqrt{5}$

C 5

D  $5\sqrt{5}$

Your answer to question 4:

5 Simplify:  $\sqrt{45} + \sqrt{180}$

A 15

B  $5\sqrt{45}$

C  $3\sqrt{15}$

D  $9\sqrt{5}$

Your answer to question 5:

6 Simplify:  $\sqrt{147}$

A  $7\sqrt{3}$

B  $3\sqrt{7}$

C 13

D  $49\sqrt{3}$

Your answer to question 6:

7 Simplify:  $\sqrt{27} + \sqrt{108}$

A  $\sqrt{135}$

B  $6\sqrt{3}$

C  $9\sqrt{3}$

D  $5\sqrt{27}$

Your answer to question 7:

8 Simplify:  $\sqrt{50} - \sqrt{8}$

A  $25 - \sqrt{2}$

B  $3\sqrt{2}$

C  $9\sqrt{2}$

D  $\sqrt{42}$

Your answer to question 8:

9 Simplify:  $3\sqrt{75} - 5\sqrt{12}$

A  $-2\sqrt{63}$

B  $3\sqrt{5}$

C  $15\sqrt{3}$

D  $5\sqrt{3}$

Your answer to question 9:

10 Simplify:  $(3 + \sqrt{7})^2$

A 13

B  $16 + 6\sqrt{7}$

C  $16 + \sqrt{14}$

D  $3 + \sqrt{7}$

Your answer to question 10:

11 Simplify:  $(1 - \sqrt{2})^2$

A  $1 - \sqrt{2}$     B  $-3$     C  $3 - 2\sqrt{2}$     D  $3 - \sqrt{2}$

Your answer to question 11:

12 Simplify:  $(1 + \sqrt{3})(1 - \sqrt{3})$

A  $-2$     B  $2$     C  $1 + 2\sqrt{3}$     D  $2 - \sqrt{6}$

Your answer to question 12:

13 Simplify:  $\frac{1}{\sqrt{2}}$

A  $\frac{1}{2}$     B  $\frac{\sqrt{2}}{2}$     C  $\sqrt{2}$     D  $\frac{2}{\sqrt{2}}$

Your answer to question 13:

14 Simplify:  $\frac{3}{\sqrt{3}}$

A  $3\sqrt{3}$     B  $\frac{1}{3\sqrt{3}}$     C  $\sqrt{3}$     D  $\frac{1}{3}$

Your answer to question 14:

15 Simplify:  $\frac{1}{1 + \sqrt{2}}$

A  $\frac{1 - \sqrt{2}}{-1}$     B  $\frac{1}{2}$     C  $1 + \sqrt{2}$     D  $\frac{1}{\sqrt{2} - 1}$

Your answer to question 15:

16 Simplify:  $\sqrt{\frac{84}{28}}$

A  $3$     B  $\frac{1}{\sqrt{3}}$     C  $\sqrt{3}$     D  $\frac{3}{3\sqrt{3}}$

Your answer to question 16:

17 Simplify:  $\sqrt{2}(1 - \sqrt{8})$

A  $\sqrt{2} - 4$     B  $16$     C  $\sqrt{2} - 10$     D  $\sqrt{2} - \sqrt{10}$

Your answer to question 17:

### Section B: Power Laws

Simplify the following by applying the laws of indices

1  $y^3 \times y^2$

A  $y$     B  $y^6$     C  $y^5$     D  $y^{-1}$

Your answer to question 1:

2  $y^8 \div y^4$

A  $y^2$     B  $y^4$     C  $y^{12}$     D  $y^{-4}$

Your answer to question 2:

3  $a^7 \times a^3$

A  $a^{21}$     B  $a^4$     C  $a^{10}$     D  $a^{10}$

Your answer to question 3:

4  $r^{10} \div r^2$

5  $b^3 \times b^{-4}$

6  $k^5 \div k^{-4}$

7  $b^{-2} \times b^{-4}$

8  $3b^3 \times 2b^5$

9  $6r^5 \div 3r$

10  $12g^2 \div 4g^5$

11  $(2x)^2$

12  $\frac{a^2b \times ab}{b^2}$

13  $\frac{2c^3 \times 6bc}{8b^2c^2}$

14  $\frac{ab^3 \times abc}{2a^2b^3}$

A  $r^6$       B  $r^{12}$       C  $r^5$       D  $r^8$

Your answer to question 4:

A  $b^{-1}$       B  $b$       C  $b^{-12}$       D  $b^7$

Your answer to question 5:

A  $k^9$       B  $k^5$       C  $k$       D  $k^{-9}$

Your answer to question 6:

A  $b^2$       B  $b^{-6}$       C  $b^{-8}$       D  $b^{-2}$

Your answer to question 7:

A  $6b^{15}$       B  $5b^8$       C  $6b^8$       D  $5b^{15}$

Your answer to question 8:

A  $2r^4$       B  $2r^5$       C  $3r^4$       D  $3r^5$

Your answer to question 9:

A  $3g^3$       B  $\frac{3}{g^3}$       C  $8g^3$       D  $\frac{8}{g^3}$

Your answer to question 10:

A  $4x^2$       B  $2x^2$       C  $2x$       D  $4x$

Your answer to question 11:

A  $a^2b$       B  $a^3$       C  $a^2b^2$       D  $\frac{a^3}{b}$

Your answer to question 12:

A  $\frac{12bc^2}{b^2}$       B  $\frac{3c^2}{2b}$       C  $bc$       D  $\frac{3b}{4c^3}$

Your answer to question 13:

A  $\frac{c}{2}$       B  $\frac{bc^2}{2a}$       C  $\frac{b}{2a}$       D  $\frac{bc}{2}$

Your answer to question 14:

15  $\frac{4cd^2 \times d^3}{6cd}$

A  $\frac{2d^4}{3}$

B  $2cd^5$

C  $\frac{2d^3}{3c}$

D  $\frac{5d^4}{6}$

Your answer to question 15:

### Section C: Factorisation of a quadratic equation

1 Look at the quadratic equation below. One of the roots is 4. What is the other?

$$x^2 - x - 12 = 0$$

A 3

B -3

C 2

D 6

Your answer to question 1:

2 Look at the quadratic equation below. One of the roots is 3. What is the other?

$$x^2 + 5x - 24 = 0$$

A -4

B 6

C -3

D -8

Your answer to question 2:

3 Look at the quadratic equation below. One of the roots is 4. What is the other?

$$x^2 + 36 = 13x$$

A 9

B -4

C 12

D 1

Your answer to question 3:

4 Look at the quadratic equation below. One of the roots is -1.5. What is the other?

$$2x^2 - x - 6 = 0$$

A 3

B 2

C -3

D -6

Your answer to question 4:

5 Look at the quadratic equation below. One of the roots is -0.5. What is the other?

$$2x^2 - 7x - 4 = 0$$

A -2

B 8

C -8

D 4

Your answer to question 5:

6 Look at the quadratic equation below. One of the roots is -3. What is the other?

$$3x^2 + 5x - 12 = 0$$

A  $\frac{4}{3}$

B -6

C -3

D 4

Your answer to question 6:

7 Look at the quadratic equation below. One of the roots is -6. What is the other?

$$x(x + 5) = 6$$

A 5

B 1

C 6

D -5

Your answer to question 7:

8 Look at the quadratic equation below. One of the roots is 0.5. What is the other?

$$4x^2 - 9x = -3 - x$$

A 1.5

B -0.5

C 3

D -3

Your answer to question 8:

9 Look at the quadratic equation below. One of the roots is -2. What is the other?

$$x(x - 1) - 2(x + 5) = 0$$

A -5

B 2

C 5

D 1

Your answer to question 9:

- 10 Look at the quadratic equation below. One of the roots is 2. What is the other?

$$2x^2 - x - 6 = 0$$

<b>A</b>	-1.5	<b>B</b>	-3	<b>C</b>	3	<b>D</b>	-2
Your answer to question 10:							

- 11 Look at the quadratic equation below. One of the roots is -2. What is the other?

$$x^2 + 6x + 8 = 0$$

<b>A</b>	4	<b>B</b>	-4	<b>C</b>	2	<b>D</b>	6
Your answer to question 11:							

- 12 Look at the quadratic equation below. One of the roots is -2. What is the other?

$$x^2 + 10x + 16 = 0$$

<b>A</b>	-8	<b>B</b>	-1	<b>C</b>	2	<b>D</b>	12
Your answer to question 12:							

- 13 Look at the quadratic equation below. One of the roots is -3. What is the other?

$$x^2 + 12x + 27 = 0$$

<b>A</b>	3	<b>B</b>	1	<b>C</b>	-27	<b>D</b>	-9
Your answer to question 13:							

- 14 Look at the quadratic equation below. One of the roots is -3. What is the other?

$$x^2 + 8x + 15 = 0$$

<b>A</b>	11	<b>B</b>	5	<b>C</b>	-5	<b>D</b>	3
Your answer to question 14:							

- 15 Look at the quadratic equation below. One of the roots is -5. What is the other?

$$x^2 + 7x + 10 = 0$$

<b>A</b>	-2	<b>B</b>	15	<b>C</b>	5	<b>D</b>	2
Your answer to question 15:							

- 16 Look at the quadratic equation below. One of the roots is 6. What is the other?

$$x^2 + 3x - 18 = 0$$

<b>A</b>	-3	<b>B</b>	9	<b>C</b>	-2	<b>D</b>	3
Your answer to question 16:							

- 17 Look at the quadratic equation below. One of the roots is 5. What is the other?

$$x^2 + 3x - 10 = 0$$

<b>A</b>	-2	<b>B</b>	8	<b>C</b>	2	<b>D</b>	-5
Your answer to question 17:							

### Section D: Equations involving fractions

1  $\frac{x+2}{3} = 4$

<b>A</b>	5	<b>B</b>	10	<b>C</b>	-1	<b>D</b>	3
Your answer to question 1:							

2  $\frac{x-3}{5} = 1$

<b>A</b>	-1	<b>B</b>	6	<b>C</b>	10	<b>D</b>	8
Your answer to question 2:							

$$\boxed{3} \quad \frac{3x+5}{8} = x$$

<b>A</b>	10	<b>B</b>	0	<b>C</b>	8	<b>D</b>	1
<i>Your answer to question 3:</i>							

$$\boxed{4} \quad \frac{2x-16}{3} = 2x$$

<b>A</b>	-4	<b>B</b>	10	<b>C</b>	5	<b>D</b>	3
<i>Your answer to question 4:</i>							

$$\boxed{5} \quad \frac{2x+6}{5} = 3x-4$$

<b>A</b>	6	<b>B</b>	2	<b>C</b>	4	<b>D</b>	3
<i>Your answer to question 5:</i>							

$$\boxed{6} \quad \frac{5x-7}{2} = 4$$

<b>A</b>	5	<b>B</b>	7	<b>C</b>	3	<b>D</b>	11
<i>Your answer to question 6:</i>							

$$\boxed{7} \quad \frac{7x-1}{2} = 13-x$$

<b>A</b>	1	<b>B</b>	3	<b>C</b>	5	<b>D</b>	8
<i>Your answer to question 7:</i>							

$$\boxed{8} \quad \frac{2x-5}{3} = 25-x$$

<b>A</b>	16	<b>B</b>	8	<b>C</b>	5	<b>D</b>	2
<i>Your answer to question 8:</i>							

$$\boxed{9} \quad \frac{x-2}{3} = \frac{x+4}{5}$$

<b>A</b>	11	<b>B</b>	4	<b>C</b>	7	<b>D</b>	1
<i>Your answer to question 9:</i>							

$$\boxed{10} \quad \frac{3x-5}{6} = \frac{9-x}{9}$$

<b>A</b>	7	<b>B</b>	3	<b>C</b>	5	<b>D</b>	0
<i>Your answer to question 10:</i>							

$$\boxed{11} \quad \frac{x+1}{6} = \frac{1-x}{4}$$

<b>A</b>	1	<b>B</b>	0.2	<b>C</b>	5	<b>D</b>	3
<i>Your answer to question 11:</i>							

$$\boxed{12} \quad \frac{x-2}{7} = 2 + \frac{3-x}{14}$$

<b>A</b>	3	<b>B</b>	7	<b>C</b>	$11\frac{2}{3}$	<b>D</b>	6
<i>Your answer to question 12:</i>							

$$13 \quad \frac{x-1}{2} + \frac{x+1}{3} = \frac{2x+5}{6}$$

A	2	B	5	C	3	D	0
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Your answer to question 13:

$$14 \quad \frac{2x-4}{2} + \frac{x+1}{10} = \frac{2x+1}{5}$$

A	7	B	10	C	11	D	3
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Your answer to question 14:

$$15 \quad \frac{2x+1}{2} - \frac{x-1}{6} = \frac{x+8}{3}$$

A	-3	B	1	C	4	D	2
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### Section E: Rearrangement of formulae

Make  $x$  the subject of the following formulae:

$$1 \quad p = 4x$$

A	$\frac{p}{4}$	B	$p-4$	C	$p+4$	D	$\frac{4}{p}$
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Your answer to question 1:

$$2 \quad V = ix$$

A	$\frac{i}{V}$	B	$V-i$	C	$Vi$	D	$\frac{V}{i}$
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Your answer to question 2:

$$3 \quad F = mx$$

A	$F+m$	B	$\frac{F}{m}$	C	$\frac{m}{F}$	D	$F-m$
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Your answer to question 3:

$$4 \quad A = 2\pi x$$

A	$A-2\pi$	B	$\frac{A}{2\pi}$	C	$\frac{A\pi}{2}$	D	$A-2\pi$
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Your answer to question 4:

$$5 \quad E = mgx$$

A	$Emg$	B	$E-mg$	C	$\frac{Eg}{m}$	D	$\frac{E}{mg}$
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Your answer to question 5:

$$6 \quad I = \frac{Pt x}{100}$$

A	$\frac{100I}{pt}$	B	$100I-pt$	C	$\frac{Ipt}{100}$	D	$\frac{100+I}{Pt}$
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Your answer to question 6:

$$7 \quad A = \frac{1}{2}bx$$

A	$\frac{A+2}{b}$	B	$\frac{2A}{b}$	C	$2A-b$	D	$\frac{Ab}{2}$
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Your answer to question 7:

8  $V = \frac{1}{3}Abx$

A  $3VAb$     B  $\frac{V}{3Ab}$     C  $\frac{3V}{ab}$     D  $V + 3ab$

Your answer to question 8:

9  $p = q + x^2$

A  $\sqrt{p+q}$     B  $\sqrt{p-q}$     C  $\sqrt{p}-q$     D  $\sqrt{p}+q$

Your answer to question 9:

10  $t = \frac{k}{x}$

A  $\frac{t}{k}$     B  $k+t$     C  $\frac{k}{t}$     D  $kt$

Your answer to question 10:

11  $v = u + ax$

A  $\frac{v-u}{a}$     B  $v-u-a$     C  $\frac{v}{a}-u$     D  $\frac{v+u}{a}$

Your answer to question 11:

12  $v^2 = u^2 + 2ax$

A  $\frac{v^2-u^2}{2a}$     B  $\frac{v-u}{2}$     C  $2a(v^2-u^2)$     D  $\frac{v^2+u^2}{2a}$

Your answer to question 12:

13  $s = 2\pi(r+x)$

A  $\frac{s-2\pi}{r}$     B  $\frac{s}{2\pi r}$     C  $s-2\pi r$     D  $\frac{s-2\pi r}{2\pi}$

Your answer to question 13:

14  $E = \frac{1}{2}mx^2$

A  $\sqrt{\frac{2E}{m}}$     B  $2Em^2$     C  $\sqrt{2Em}$     D  $\sqrt{\frac{E}{2m}}$

Your answer to question 14:

15  $A = \pi x^2$

A  $\sqrt{\frac{\pi}{A}}$     B  $\sqrt{\frac{A}{\pi}}$     C  $\sqrt{A\pi}$     D  $\sqrt{A\pi}$

Your answer to question 15:

16  $y = mx + c$

A  $m(y+c)$     B  $\frac{y}{m} + c$     C  $\frac{y-c}{m}$     D  $\frac{y}{m} - c$

Your answer to question 16:

17  $V = \frac{4}{3}\pi x^3$

A  $\sqrt[3]{\frac{3V}{4\pi}}$     B  $\sqrt{\frac{4V}{3\pi}}$     C  $(3V\pi)^3$     D  $\sqrt[3]{\frac{3V\pi}{4}}$

Your answer to question 17:

18  $P = \frac{mx^2}{r}$

A  $\frac{P}{mr}$

B  $\sqrt{\frac{Pr}{m}}$

C  $\sqrt{\frac{Pm}{r}}$

D  $(Pmr)^2$

Your answer to question 18:

**Section F: Simultaneous equations**

1 Look at the equations below. The solutions to  $x$  and  $y$  in that order are:

$x + y = 5$  and  $x - y = 3$

A 4 and -1

B 4 and 1

C 3 and 2

D 7 and -2

Your answer to question 1:

2 Look at the equations below. The solutions to  $x$  and  $y$  in that order are:

$2x + y = 12$  and  $4x - y = 6$

A -3 and 18

B 3 and 9

C 2 and 8

D 3 and 6

Your answer to question 2:

3 Look at the equations below. The solutions to  $x$  and  $y$  in that order are:

$2x + 3y = 17$  and  $4x - 3y = 7$

A 4 and 3

B 4 and 13

C 7 and 1

D 1 and 5

Your answer to question 3:

4 Look at the equations below. The solutions to  $x$  and  $y$  in that order are:

$5x + y = 10$  and  $3x - y = 2$

A 2 and 0

B 1.5 and 2.5

C 6 and -20

D 3 and 2

Your answer to question 4:

5 Look at the equations below. The solutions to  $x$  and  $y$  in that order are:

$2x + y = 12$  and  $x + y = 7$

A 1 and 10

B 5 and 2

C 6 and 0

D 3 and 6

Your answer to question 5:

6 Look at the equations below. The solutions to  $x$  and  $y$  in that order are:

$3x - y = 8$  and  $3x - 2y = 7$

A 3 and 1

B 5 and 7

C 2 and -2

D 3 and -1

Your answer to question 6:

7 Look at the equations below. The solutions to  $x$  and  $y$  in that order are:

$2x + y = 7$  and  $x + y = 5$

A 3 and 1

B 2 and 5

C 6 and -5

D 2 and 3

Your answer to question 7:

8 Look at the equations below. The solutions to  $x$  and  $y$  in that order are:

$x - 7y = 5$  and  $x - 5y = 9$

A 12 and 1

B 19 and -14

C -2 and -1

D 19 and 2

Your answer to question 8:

9 Look at the equations below. The solutions to  $x$  and  $y$  in that order are:

$x + y = 8$  and  $x - y = 2$

A 5 and 3

B 4 and 4

C 0 and 8

D 7 and -1

Your answer to question 9:

- 10** Look at the equations below. The solutions to  $x$  and  $y$  in that order are:
- $3x - y = 11$       and       $3x - 2y = 13$
- A** 7 and 10      **B** 3 and -2      **C** 6 and 1      **D** 5 and 4
- Your answer to question 10:
- 11** Look at the equations below. The solutions to  $x$  and  $y$  in that order are:
- $x + 2y = 7$       and       $3x - 4y = 21$
- A** 1 and 3      **B** 7 and 10      **C** 4 and 1.5      **D** 7 and 0
- Your answer to question 11:
- 12** Look at the equations below. The solutions to  $x$  and  $y$  in that order are:
- $x + y = 4$       and       $3y - x = 16$
- A** -1 and 5      **B** 3 and 1      **C** 6 and -2      **D** -3 and 2
- Your answer to question 12:
- 13** Look at the equations below. The solutions to  $x$  and  $y$  in that order are:
- $5x + 2y = 19$       and       $7x - y = 19$
- A** 5 and -3      **B** 3 and 2      **C** 4 and -0.5      **D** 6 and 1
- Your answer to question 13:
- 14** Look at the equations below. The solutions to  $x$  and  $y$  in that order are:
- $x + 4y = 3$       and       $2x - 8y = -2$
- A** 1 and 0.5      **B** 2 and 0.25      **C** 7 and -1      **D** 6 and -1
- Your answer to question 14:
- 15** Look at the equations below. The solutions to  $x$  and  $y$  in that order are:
- $3x + y = 7$       and       $x + y = 5$
- A** 2 and 1      **B** 1 and 4      **C** 3 and -2      **D** 4 and -3
- Your answer to question 15:

### Section G: The equation of the line $y = mx + c$

- 1** What is the gradient of the line with equation given below:
- $y = 3x + 2$
- A** 3      **B** 2      **C** -3      **D**  $\frac{1}{3}$
- Your answer to question 1:
- 2** What is the gradient of the line with equation given below:
- $y = 5x + 2$
- A** 2      **B** 5      **C** -5      **D**  $\frac{1}{5}$
- Your answer to question 2:
- 3** What is the gradient of the line with equation given below:
- $y = 3x - 1$
- A** -1      **B** 1      **C** 3      **D**  $\frac{1}{3}$
- Your answer to question 3:
- 4** What is the gradient of the line with equation given below:
- $y = \frac{x}{2} + 3$
- A**  $\frac{1}{2}$       **B** 2      **C** 3      **D** -3
- Your answer to question 4:

- 5 What is the gradient of the line with equation given below:  

$$y = -\frac{x}{3} + 8$$
**A** 8 **B**  $\frac{1}{3}$  **C** -8 **D**  $-\frac{1}{3}$   
 Your answer to question 5:
- 6 What is the gradient of the line with equation given below:  

$$y = 7 - 3x$$
**A** -3 **B** 7 **C** 3 **D**  $-\frac{1}{3}$   
 Your answer to question 6:
- 7 What is the gradient of the line with equation given below:  

$$y = 5x + 2$$
**A** -5 **B** 5 **C** 2 **D**  $-\frac{1}{5}$   
 Your answer to question 7:
- 8 What is the gradient of the line with equation given below:  

$$2y = 4x + 3$$
**A** 4 **B** -4 **C** 2 **D** 3  
 Your answer to question 8:
- 9 What is the gradient of the line with equation given below:  

$$y - 2x = 4$$
**A** 2 **B** 4 **C** -2 **D** -4  
 Your answer to question 9:
- 10 What is the gradient of the line with equation given below:  

$$y - 3x + 1 = 0$$
**A** -3 **B** 3 **C** 1 **D** -1  
 Your answer to question 10:
- 11 What is the gradient of the line with equation given below:  

$$2y + 8x + 5 = 0$$
**A** -4 **B** 4 **C** -8 **D**  $-\frac{5}{2}$   
 Your answer to question 11:
- 12 What is the gradient of the line with equation given below:  

$$3x + y = 4$$
**A** 3 **B** 4 **C** -3 **D**  $\frac{4}{3}$   
 Your answer to question 12:
- 13 What is the gradient of the line with equation given below:  

$$\frac{x}{3} + \frac{y}{2} = 1$$
**A**  $\frac{1}{3}$  **B**  $-\frac{2}{3}$  **C**  $-\frac{1}{3}$  **D** 3  
 Your answer to question 13:
- 14 What is the gradient of the line with equation given below:  

$$\frac{x}{4} - \frac{2y}{3} = 1$$
**A**  $\frac{3}{8}$  **B**  $\frac{1}{4}$  **C**  $-\frac{1}{4}$  **D**  $-\frac{3}{2}$   
 Your answer to question 14:
- 15 What is the y axis intercept of the line in question 1?  
**A** 2 **B** 3 **C** -2 **D** -3  
 Your answer to question 15:

- 16 What is the  $y$  axis intercept of the line in question 5? **A** 8 **B** -8 **C** -3 **D**  $-\frac{1}{3}$   
Your answer to question 16:
- 17 What is the  $x$  axis intercept of the line in question 3? **A**  $\frac{1}{3}$  **B**  $-\frac{1}{3}$  **C** -1 **D** -3  
Your answer to question 17:
- 18 What is the  $x$  axis intercept of the line in question 7? **A** -2 **B**  $-\frac{2}{5}$  **C** -5 **D**  $-\frac{5}{2}$   
Your answer to question 18:
- 19 What is the  $y$  axis intercept of the line in question 10? **A**  $\frac{1}{3}$  **B** 3 **C** -1 **D** 1  
Your answer to question 19:
- 20 What is the  $x$  axis intercept of the line in question 12? **A**  $\frac{4}{3}$  **B**  $-\frac{4}{3}$  **C**  $-\frac{3}{4}$  **D** -4  
Your answer to question 20:

### Section H: Distance between two points

- 1 Find the distance between the two points given below: **A**  $\sqrt{7}$  **B** 5 **C**  $\sqrt{125}$  **D**  $\sqrt{15}$   
(1, 3) and (4, 7)  
Your answer to question 1:
- 2 Find the distance between the two points given below: **A** 5 **B**  $\sqrt{128}$  **C** 10 **D** 4  
(1, 8) and (7, 0)  
Your answer to question 2:
- 3 Find the distance between the two points given below: **A** 7 **B** 1 **C** 2 **D**  $\sqrt{7}$   
(4, 0) and (-3, 0)  
Your answer to question 3:
- 4 Find the distance between the two points given below: **A**  $\sqrt{5}$  **B**  $\sqrt{37}$  **C** 5 **D** 2  
(1, 5) and (-2, 1)  
Your answer to question 4:
- 5 Find the distance between the two points given below: **A**  $\sqrt{5}$  **B** 1 **C**  $\sqrt{17}$  **D** 13  
(-3, -4) and (2, 8)  
Your answer to question 5:

- 6 Find the distance between the two points given below:  
(1, 2) and (5, 3)
- A  $\sqrt{61}$  B  $\sqrt{11}$  C 11 D  $\sqrt{17}$
- Your answer to question 6:
- 7 Find the distance between the two points given below:  
(1, 1) and (2, -1)
- A  $\sqrt{5}$  B 3 C  $\sqrt{3}$  D 2
- Your answer to question 7:
- 8 Find the distance between the two points given below:  
(3, 3) and (5, 7)
- A  $\sqrt{181}$  B  $2\sqrt{5}$  C  $\sqrt{18}$  D 18
- Your answer to question 8:
- 9 Find the distance between the two points given below:  
(3, 3) and (5, -1)
- A  $\sqrt{10}$  B  $\sqrt{13}$  C  $2\sqrt{5}$  D  $\sqrt{68}$
- Your answer to question 9:
- 10 Find the distance between the two points given below:  
(-1, 0) and (2, 3)
- A  $3\sqrt{2}$  B  $\sqrt{10}$  C  $\sqrt{5}$  D 2
- Your answer to question 10: