

## PRESSURE

### Pearson Edexcel - Thursday 7 June 2018 - Paper 2 (Calculator) Higher Tier

1.

6	No (supported)	<p>P1 For a process to calculate the initial or new pressure, eg <math>(70 + 10) \div (20 + 10)</math> (=2.6 to 2.7) <b>or</b> <math>80 \div 30</math> (=2.6 to 2.7) <b>or</b> <math>70 \div 20</math> (=3.5)</p> <p>P1 For a complete process to make a comparison eg <math>0.8 \times "3.5"</math> (=2.8)  <b>OR</b> <math>\frac{("3.5" - "2.6")}{"3.5"} \times 100</math> (=22 to 26)  <b>OR</b> <math>"3.5" \times 0.2</math> (=0.7) <b>and</b> <math>80 \div 30</math> (=2.6 to 2.7)  <b>OR</b> <math>\frac{2.6}{3.5} (\times 100)</math> (=0.74 to 0.78 <b>or</b> 74 to 78)</p> <p>A1 for a correct conclusion supported by accurate figures eg 2.8 <b>and</b> 2.6(6...)  <b>OR</b> decrease is 24% (or 22% to 26%)  <b>OR</b> 0.7 <b>and</b> 2.6 to 2.7 <b>and</b> 3.5  <b>OR</b> 0.7 <b>and</b> 0.9  <b>OR</b> 0.76 (or 0.74 to 0.78)  <b>OR</b> 76% (or 74% to 78%)</p>	<p>Accept any value in the range 2.6 to 2.7 if unsupported by working</p> <p>Allow truncation or rounding of figures</p>
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### Pearson Edexcel - Specimen Papers Set 1 - Paper 1 (Non-Calculator) Higher Tier

2.

2		4 m <sup>2</sup>	<p>B1 substitution into formula eg <math>35 = \frac{140}{A}</math> oe</p> <p>A1 4 stated</p> <p>C1 (indep) units stated</p>
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### Pearson Edexcel - Sample Paper 1 - (Non-Calculator) Higher Tier

3.

12		150 000	<p>M1 <math>60 \div 100^2</math> <b>or</b> <math>900 \div 60</math> <b>or</b> <math>900 \div "60"</math></p> <p>A1</p>
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### AQA GCSE – Thursday 6 November 2017 – Paper 2 (Calculator) Higher Tier

4.

25	342.5 or 347.5	B1	Allow 347.49 for 347.5
	6.35 or 6.45 or 2.55 or 2.65	B1	Allow 6.449 for 6.45 Allow 2.649 for 2.65
	their 6.35 × their 2.55 or 16.1925	M1	Must use their lower bounds for lengths their 6.35 must be [6.3, 6.4] their 2.55 must be [2.5, 2.6]
	their 347.5 ÷ their 16.1925	M1dep	Must use their upper bound for force their 347.5 bound must be (345, 350]
	21.46	A1	Must come from $347.5 \div (6.35 \times 2.55)$ or $347.49 \div (6.35 \times 2.55)$
<b>Additional Guidance</b>			
$347.49 \div (6.35 \times 2.55) = 21.46$			B0B1M1M1A0
21.4... or 21.5 does not score any marks if no working is seen			

### AQA GCSE – Sample Paper 3 (Calculator) Higher Tier

5.

11	100(%) – 14(%) or 86(%) or $1 - 0.14$ or $0.86$	M1	Implied by 87 139(.5)
	$101\,325 \times 0.86^4$	A1	oe eg $101\,325 \times 0.86$ or 87 139(.5) and their $87\,139(.5) \times 0.86$ or 74 939(.97) and their $74\,939(.97) \times 0.86$ or 64 448(.3742) and their $64\,448(.3742) \times 0.86$
	55 425(...)	A1	May be implied by 55 000 or 55 400 or 55 430 or 55 426
	55 000	B1ft	ft their answer rounded to 2sf