

Task 1: Fill in the blanks. Leave answers as improper fractions where appropriate.

A	B	$A + B$	$A - B$	$A \times B$	$A \div B$	$B \div A$
$\frac{3}{5}$	$\frac{8}{15}$	$\frac{17}{15}$	$\frac{1}{15}$	$\frac{8}{25}$	$\frac{9}{8}$	$\frac{8}{9}$
$\frac{3}{7}$	$\frac{8}{21}$	$\frac{17}{21}$	$\frac{1}{21}$	$\frac{8}{49}$	$\frac{9}{8}$	$\frac{8}{9}$
$\frac{3}{11}$	$\frac{8}{33}$	$\frac{17}{33}$	$\frac{1}{33}$	$\frac{8}{121}$	$\frac{9}{8}$	$\frac{8}{9}$
$\frac{3}{n}$	$\frac{8}{3n}$	$\frac{17}{3n}$	$\frac{1}{3n}$	$\frac{8}{n^2}$	$\frac{9}{8}$	$\frac{8}{9}$
$\frac{5}{7}$	$\frac{9}{14}$	$\frac{19}{14}$	$\frac{1}{14}$	$\frac{45}{98}$	$\frac{10}{9}$	$\frac{9}{10}$
$\frac{5}{8}$	$\frac{9}{16}$	$\frac{19}{16}$	$\frac{1}{16}$	$\frac{45}{128}$	$\frac{10}{9}$	$\frac{9}{10}$
$\frac{5}{11}$	$\frac{9}{22}$	$\frac{19}{22}$	$\frac{1}{22}$	$\frac{45}{242}$	$\frac{10}{9}$	$\frac{9}{10}$
$\frac{5}{n}$	$\frac{9}{2n}$	$\frac{19}{2n}$	$\frac{1}{2n}$	$\frac{45}{2n^2}$	$\frac{10}{9}$	$\frac{9}{10}$
$\frac{1}{5}$	$\frac{1}{7}$	$\frac{12}{35}$	$\frac{2}{35}$	$\frac{1}{35}$	$\frac{7}{5}$	$\frac{5}{7}$
$\frac{4}{5}$	$\frac{2}{7}$	$\frac{38}{35}$	$\frac{18}{35}$	$\frac{8}{35}$	$\frac{14}{5}$	$\frac{5}{14}$
$\frac{9}{5}$	$\frac{3}{7}$	$\frac{78}{35}$	$\frac{48}{35}$	$\frac{27}{35}$	$\frac{21}{5}$	$\frac{5}{21}$
$\frac{n^2}{5}$	$\frac{n}{7}$	$\frac{n(7n+5)}{35}$	$\frac{n(7n-5)}{35}$	$\frac{n^3}{35}$	$\frac{7n}{5}$	$\frac{5}{7n}$

Task 2: Consider these fractions $\frac{1}{6}$ $\frac{1}{25}$ $\frac{3}{5}$ $\frac{3}{20}$ $\frac{4}{15}$ $\frac{5}{8}$

Order the fractions.

Using each fraction at most once, find a group that sum to as close to 1 as possible.

It is not possible to make 1 exactly.
The five nearest sums, in order, are:

$$\frac{3}{5} + \frac{4}{15} + \frac{3}{20} = 1\frac{1}{60}$$

$$\frac{5}{8} + \frac{1}{6} + \frac{3}{20} + \frac{1}{25} = \frac{589}{600}$$

$$\frac{3}{5} + \frac{4}{15} + \frac{1}{6} = 1\frac{1}{30}$$

$$\frac{5}{8} + \frac{4}{15} + \frac{3}{20} = 1\frac{1}{24}$$

$$\frac{3}{5} + \frac{1}{6} + \frac{3}{20} + \frac{1}{25} = \frac{287}{300}$$

smallest

LARGEST

$\frac{1}{25}$

$\frac{3}{20}$

$\frac{1}{6}$

$\frac{4}{15}$

$\frac{3}{5}$

$\frac{5}{8}$

Task 3: Find the mean, median and range for each of the following sets of numbers

1) a) $\frac{1}{2}$ $\frac{1}{4}$ 1

Mean	$\frac{7}{12}$	Median	$\frac{1}{2}$	Range	$\frac{3}{4}$
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b) $\frac{1}{2}$ $\frac{1}{3}$ 1

Mean	$\frac{11}{18}$	Median	$\frac{1}{2}$	Range	$\frac{2}{3}$
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c) $\frac{1}{5}$ $-\frac{1}{2}$ $\frac{1}{10}$

Mean	$-\frac{1}{15}$	Median	$\frac{1}{10}$	Range	$\frac{7}{10}$
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d) $\frac{1}{3}$ $\frac{1}{4}$ $-\frac{1}{12}$

Mean	$\frac{1}{6}$	Median	$\frac{1}{4}$	Range	$\frac{5}{12}$
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e) $\frac{4}{15}$ $-\frac{2}{5}$ $-\frac{1}{6}$

Mean	$-\frac{1}{10}$	Median	$-\frac{1}{6}$	Range	$\frac{2}{3}$
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f) $2\frac{1}{2}$ $5\frac{2}{3}$ $-2\frac{1}{6}$

Mean	2	Median	$\frac{5}{2} = 2\frac{1}{2}$	Range	$\frac{47}{6} = 7\frac{5}{6}$
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2) a) $\frac{2}{5}$ $\frac{9}{10}$ $\frac{1}{5}$ $\frac{1}{10}$

Mean	$\frac{2}{5}$	Median	$\frac{3}{10}$	Range	$\frac{4}{5}$
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b) $\frac{2}{3}$ $\frac{1}{3}$ $\frac{1}{2}$ $\frac{1}{6}$

Mean	$\frac{5}{12}$	Median	$\frac{5}{12}$	Range	$\frac{1}{2}$
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c) $1\frac{1}{8}$ $\frac{1}{4}$ $\frac{1}{8}$ $\frac{1}{2}$

Mean	$\frac{1}{2}$	Median	$\frac{3}{8}$	Range	1
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d) $-\frac{2}{3}$ $-\frac{3}{4}$ $\frac{1}{3}$ $\frac{3}{4}$

Mean	$-\frac{1}{12}$	Median	$-\frac{1}{6}$	Range	$\frac{3}{2} = 1\frac{1}{2}$
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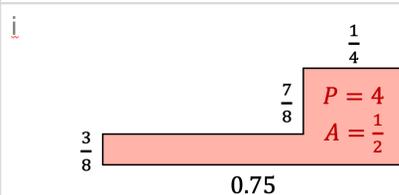
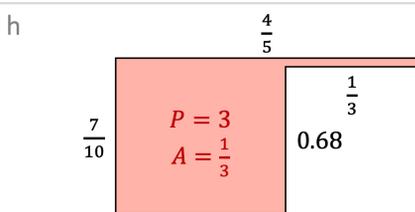
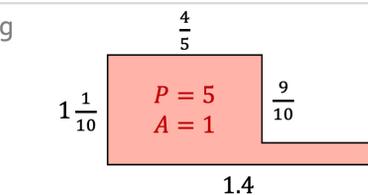
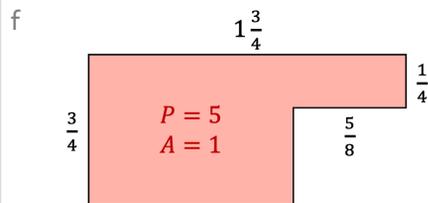
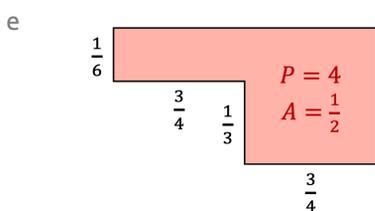
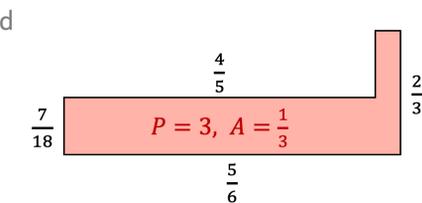
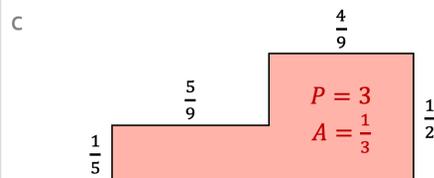
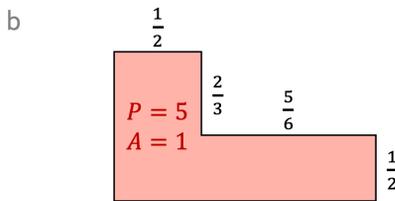
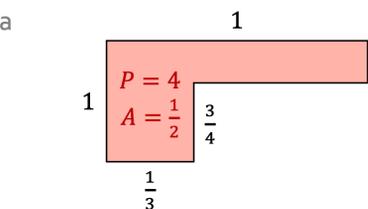
e) $2\frac{2}{3}$ $-\frac{5}{7}$ $-1\frac{1}{7}$ $\frac{1}{3}$

Mean	$\frac{2}{7}$	Median	$-\frac{4}{21}$	Range	$\frac{78}{21} = 3\frac{17}{21}$
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f) $-2\frac{1}{8}$ $-2\frac{5}{6}$ $4\frac{5}{6}$ $5\frac{5}{8}$

Mean	$\frac{11}{8}$	Median	$\frac{65}{48} = 1\frac{17}{48}$	Range	$\frac{203}{24} = 8\frac{11}{24}$
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Task 4: Find the area and perimeter of each shape.



Task 6: Shade all the cells that round to 0.3 to 1 decimal place.
Complete the bottom row in a way that continues the pattern.

$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{7}{20}$	$\frac{6}{25}$
$\frac{46}{125}$	$\frac{44}{125}$	$\frac{42}{125}$	$\frac{32}{125}$	$\frac{31}{125}$
$\frac{35}{101}$	$\frac{35}{100}$	$\frac{35}{99}$	$\frac{25}{101}$	$\frac{25}{99}$
$\frac{1}{2}$	$\frac{2}{7}$	$\frac{7}{27}$	$\frac{27}{75}$	$\frac{75}{301}$

Task 7: Shade all the cells that round to 0.4 to 1 decimal place.

$\frac{1}{10} + \frac{1}{4}$	$\frac{1}{4} + \frac{1}{5}$	$\frac{1}{5} + \frac{2}{15}$	$\frac{2}{15} + \frac{1}{3}$	$\frac{1}{3} + \frac{1}{24}$
$5\frac{1}{8} - 4\frac{3}{4}$	$4\frac{3}{4} - \frac{13}{3}$	$\frac{13}{3} - 4$	$4 - \frac{71}{20}$	$\frac{71}{20} - 3\frac{11}{50}$
$\frac{11}{20} \times \frac{3}{5}$	$\frac{3}{5} \times \frac{3}{5}$	$\frac{3}{5} \times \frac{2}{3}$	$\frac{2}{3} \times \frac{1}{2}$	$\frac{1}{2} \times \frac{9}{10}$
$\frac{3}{4} \div \frac{5}{3}$	$\frac{5}{3} \div 3\frac{2}{3}$	$3\frac{2}{3} \div 10$	$10 \div 28\frac{4}{7}$	$28\frac{4}{7} \div 57\frac{1}{7}$

0.35	0.45	0.3̇	0.46̇	0.375
0.375	0.416̇	0.3̇	0.45	0.33
0.33	0.36	0.4	0.3̇	0.45
0.45	0.45̇	0.36̇	0.35	0.5

Task 8: Solve each of the following equations

1) $0.2x + 5 = 8$ $x = 15$	7) $0.002x + 50 = 80$ $x = 15000$	13) $0.2(x + 0.8) = 0.19$ $x = 0.15$
2) $0.2x - 0.5 = 8$ $x = 42.5$	8) $80x + 0.002 = 0.05$ $x = 0.0006$	14) $0.4(2x - 0.03) = 0.3$ $x = 0.39$
3) $0.5x + 0.2 = 8$ $x = 15.6$	9) $0.2x - 0.07 = 0.35$ $x = 2.1$	15) $0.4(0.2x - 0.03) = 0.03$ $x = 0.525$
4) $0.8x - 0.2 = 50$ $x = 62.75$	10) $0.03x + 0.04 = 0.46$ $x = 14$	16) $0.6(0.7x - 0.81) = 0.9$ $x = 3.3$
5) $0.2x + 0.15 = 0.5x$ $x = 0.5$	11) $9.7 - 0.07x = 1.3$ $x = 120$	17) $\frac{5x-0.8}{0.2} = 3.5$ $x = 0.3$
6) $2x + 0.8 = 2 - 0.5x$ $x = 0.48$	12) $3.3 + 0.03x = 0.07x + 0.5$ $x = 70$	18) $\frac{0.9x-0.04}{0.8} = 0.4$ $x = 0.4$

Task 9: Shade all the cells that round to 0.2 to 1 decimal place.
Complete the bottom row in a way that continues the pattern.

$0.028 + 0.122$	$0.122 + 0.128$	$0.128 + 0.018$	$0.18 + 0.06$	$0.06 + 0.08$
$4 - 3.883$	$3.883 - 3.712$	$3.712 - 3.001$	$3.001 - 1.831$	$1.831 - 1.654$
0.6×0.4	0.4×0.7	0.7×0.2	0.2×0.95	0.95×0.28
$0.006 \div 0.02$	$0.02 \div 0.125$	$0.125 \div 0.5$	$0.5 \div 1.6$	$1.6 \div 8$

0.15	0.25	0.146	0.24	0.14
0.117	0.171	0.711	1.17	0.177
0.24	0.28	0.14	0.19	0.266
0.3	0.16	0.25	0.3125	0.2

Task 10: Converting from a fraction to a recurring decimal

<p><i>Jo has answered this question correctly.</i></p> <p>Q: Write $\frac{5}{12}$ as a recurring decimal.</p> <p>A:</p> $12 \overline{) 5.00000}$ $\begin{array}{r} 041666... \\ 12 \overline{) 5.00000} \\ \underline{50} \\ 20 \\ \underline{24} \\ 40 \\ \underline{48} \\ 0 \end{array}$ $\frac{5}{12} = 0.41\dot{6}$	<p>1: Use Jo's answer to write the following as decimals</p> <p>a) $\frac{11}{12} = 0.91\dot{6}$</p> <p>b) $\frac{37}{60} = 0.61\dot{6}$</p> <p>c) $\frac{1}{12} = 0.08\dot{3}$</p>												
<p><i>Your turn</i></p> <p>Q: Write $\frac{4}{15}$ as a recurring decimal.</p> <p>A:</p> $0.2\dot{6}$	<p>2: Divide the following into recurring and terminating (non-recurring) decimals. What do you notice?</p> <table border="1" data-bbox="671 352 956 663"> <tr> <td>$\frac{1}{2}$</td> <td>$\frac{1}{3}$</td> <td>$\frac{1}{4}$</td> </tr> <tr> <td>$\frac{1}{5}$</td> <td>$\frac{1}{6}$</td> <td>$\frac{1}{7}$</td> </tr> <tr> <td>$\frac{1}{8}$</td> <td>$\frac{1}{9}$</td> <td>$\frac{1}{10}$</td> </tr> <tr> <td>$\frac{1}{11}$</td> <td>$\frac{1}{12}$</td> <td>$\frac{1}{15}$</td> </tr> </table> <p>Recurring</p> <p>Denominators with prime factors other than 2 and 5</p> <p>Terminating</p> <p>Denominators without prime factors other than 2 and 5</p>	$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$	$\frac{1}{5}$	$\frac{1}{6}$	$\frac{1}{7}$	$\frac{1}{8}$	$\frac{1}{9}$	$\frac{1}{10}$	$\frac{1}{11}$	$\frac{1}{12}$	$\frac{1}{15}$
$\frac{1}{2}$	$\frac{1}{3}$	$\frac{1}{4}$											
$\frac{1}{5}$	$\frac{1}{6}$	$\frac{1}{7}$											
$\frac{1}{8}$	$\frac{1}{9}$	$\frac{1}{10}$											
$\frac{1}{11}$	$\frac{1}{12}$	$\frac{1}{15}$											

Task 11: Converting from a recurring decimal to a fraction

<p><i>Sam has answered this question correctly.</i></p> <p>Q: Using algebra, convert $0.\dot{3}6$ to a fraction.</p> <p>A:</p> $x = 0.363636...$ $100x = 36.363636...$ $99x = 36$ $x = \frac{36}{99} = \frac{4}{11}$	<p>1: Explain the benefit of Sam multiplying by 100.</p> <p>Gets digits to line up.</p>
<p><i>Your turn</i></p> <p>Q: Using algebra, convert $0.\dot{5}7$ to a fraction.</p> <p>A:</p> $\frac{57}{99} = \frac{19}{33}$	<p>2: Use Sam's answer to write the following as fractions</p> <p>a) $0.\dot{7}2 = \frac{8}{11}$</p> <p>b) $0.\dot{3}7 = \frac{37}{99}$</p> <p>c) $0.8\dot{6}\dot{3} = \frac{19}{22}$</p> <p>3: Using algebra, convert $0.\dot{9}$ to a fraction.</p> $1!$

Task 12: Using algebra, convert each of the following to fractions.

<p>a) $0.\dot{4}1$</p> $\frac{41}{99}$	<p>b) $0.\dot{4}$</p> $\frac{4}{9}$	<p>c) $0.\dot{4}1\dot{2}$</p> $\frac{412}{999}$
<p>d) $0.0\dot{4}1\dot{2}$</p> $\frac{412}{9990} = \frac{206}{4995}$	<p>e) $0.3\dot{4}1\dot{2}$</p> $\frac{3409}{9990}$	<p>f) $0.\dot{1}4285\dot{7}$</p> $\frac{142857}{999999} = \frac{1}{7}$

Task 14: Prove each of the following.

$$0.1 \times 0.2\dot{7} = \frac{1}{33}$$

$$0.5 \times 0.8\dot{1} = \frac{5}{11}$$

$$0.\dot{1}8 \div 0.4 = \frac{9}{22}$$

$$0.8 \div 0.7\dot{2} = 1\frac{2}{9}$$

$$0.1\dot{2}6 \div 0.2 = \frac{5}{8}$$

$$0.194 \div 0.4 = \frac{7}{16}$$

Task 15: Calculate each of the following as a fraction.

$$2 \times 0.\dot{4}5$$

$$\frac{10}{11}$$

$$5.5 \times 0.\dot{1}7$$

$$\frac{17}{18}$$

$$(0.69\dot{4})^{\frac{1}{2}}$$

$$\frac{5}{6}$$

$$1.5 \times 0.5\dot{3}$$

$$\frac{4}{5}$$

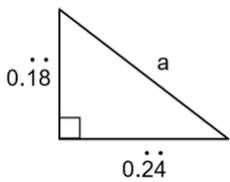
$$0.25 \times (0.\dot{1})^{-\frac{1}{2}}$$

$$\frac{3}{4}$$

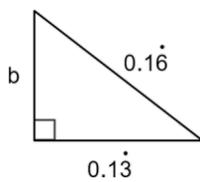
$$(0.29\dot{6})^{\frac{1}{3}}$$

$$\frac{2}{3}$$

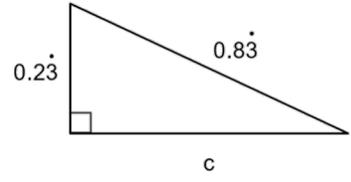
Task 16: Find the length of the missing side as a fraction in its simplest form.



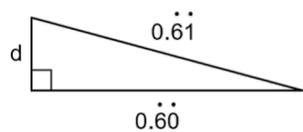
$$a = 10/33$$



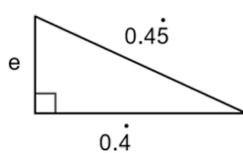
$$b = 1/10$$



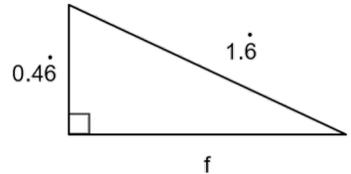
$$c = 4/5$$



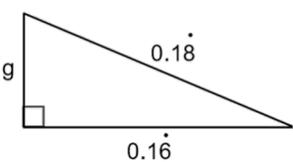
$$d = 1/9$$



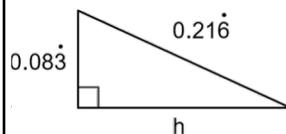
$$e = 1/10$$



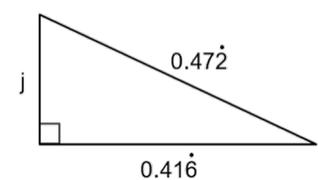
$$f = 8/5$$



$$g = 4/45$$

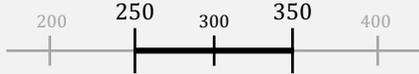
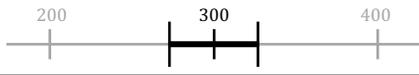
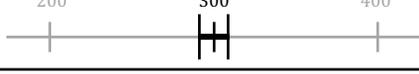
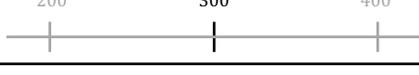
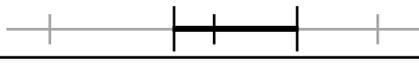
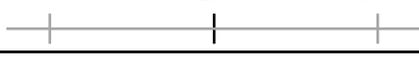
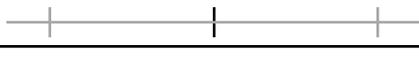
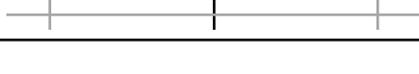
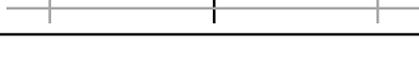
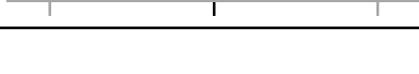
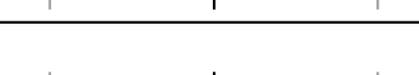
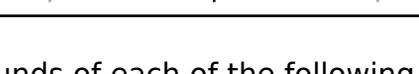


$$h = 1/5$$



$$j = 2/9$$

Task 17: Fill in the gaps, labelling the Upper and Lower bounds on the number line.

Rounded Value	Rounding Method	Number Line	Error Interval
300	Nearest hundred		$250 \leq x < 350$
300	Nearest ten		$295 \leq x < 305$
300	Nearest whole number		$299.5 \leq x < 300.5$
300	1 significant figure		$250 \leq x < 350$
100	1 significant figure		$95 \leq x < 150$
100	2 significant figures		$99.5 \leq x < 105$
1300	2 significant figures		$1250 \leq x < 1350$
3100	Nearest whole number		$3099.5 \leq x < 3100.5$
0.31	2 decimal places		$0.305 \leq x < 0.315$
0.310	3 decimal places		$0.3095 \leq x < 0.3105$
0.1	1 decimal place		$0.05 \leq x < 0.15$
0.1	1 significant figure		$0.095 \leq x < 0.15$

Task 18: Find the Upper and Lower bounds of each of the following expressions, where: $x = 3.5$ (1 decimal place), $y = 24$ (2 significant figures), $z = 30$ (nearest ten). Give your answers to 4 significant figures.

Expression	Lower Bound	Upper Bound	Expression	Lower Bound	Upper Bound
$x + y$	29.95	31.05	15% of x	0.5175	0.5325
$y - x$	22.95	24.05	$\frac{2}{7}$ of x	0.9857	1.014
$\frac{y}{x}$	7.465	7.971	The range of x , y and z	22.95	31.55
$\frac{1}{x} + y$	26.78	27.79	The median of x , y and z	25.00	27.50
xy	91.43	97.63	The mean of x , y and z	18.32	22.02
$\frac{y-x}{z}$	0.6557	0.9620	$y + z$	51.50	62.50

Task 19: Bounds Questions

1) The height of a tree is 12 metres, correct to the nearest metre. Write the error interval.	$11.5 \leq h < 12.5$
2) The length of a table is 110 cm to the nearest cm. Write the error interval.	$109.5 \leq l < 110.5$
3) To the nearest pound, Jon has £9. To the nearest 50p, Ellie has £6.50. Work out the maximum and minimum possible total amount of money.	Min = £14.75 Max = £16.25
4) The length of each side of a regular pentagon is 8.4 cm to 1 decimal place. a) Find the error interval for the length of one side. b) Find the error interval for the perimeter.	$8.35 \leq l < 8.45$ $41.75 \leq P < 42.25$
5) A tank is a cuboid measuring 50 cm by 35 cm by 20 cm. All lengths are to the nearest centimetre. A container has a capacity of exactly 34 litres. 1 litre = 1000 cm ³ . Can you tell which has the larger capacity?	No because... the LB for the tank is below 34 litres, but the UB is above 34 litres
6) The length of a roll of ribbon is 30 metres, correct to the nearest half-metre. A piece of length 5.8 metres, correct to the nearest 10 cm, is cut from the roll. Work out the maximum and minimum possible length of ribbon left on the roll.	Min = 23.65 Max = 24.75
7) a) The length of a pipe is 6 metres to the nearest metre. Complete the error interval for the length of the pipe. b) The length of a different pipe is 4 metres to the nearest metre. Olly says, "The total length of the two pipes is 11 metres, to the nearest metre." Give an example to show that he could be correct.	$5.5 \leq l < 6.5$ E.g. $6.4 + 4.4 = 10.8$
8) A lift is safe to use when the total mass of people is 450 kg or less. Ben and some other people are in the lift. Their total mass is 525 kg to the nearest 5 kg. Ben gets out. He has a mass of 78 kg to the nearest kg. Is the lift now safe to use?	Yes because... the UB for remaining mass is 450 kg
9) An empty container has a capacity of 80 000 litres, to 1 significant figure. Mel pours in 7400 litres of water, to 2 significant figures. She says, "I have filled more than 10% of the container." Could she be correct?	No because... Min total = 75000l Max poured = 7450l
10) $x = 400$ to 1 significant figure. $y = 25$ to 2 significant figures. Work out the maximum integer value of $\frac{x}{y}$	$450/24.5 = 18.37...$ 18

Task 20: Give the error interval for each of the following truncations.

1. 1 (to the unit) $1 \leq x < 2$	2. 67 (to the unit) $67 \leq x < 68$	3. 380 (to the tens) $380 \leq x < 390$
4. 5400 (to the hundreds) $5400 \leq x < 5500$	5. 10000 (to the hundreds) $10000 \leq x < 10100$	6. 56.7 (to 1 d.p.) $56.7 \leq x < 56.8$
7. 0.45 (to 2 d.p.) $0.45 \leq x < 0.46$	8. 10.300 (to 3 d.p.) $10.3 \leq x < 10.301$	9. 99000 (to the thousands) $99\ 000 \leq x < 100\ 000$

Task 21: For each equation, find the upper and lower bounds for x

$2x + 7 = a$ $a = 23, \text{ rounded to the nearest whole number}$ $7.75 \leq x < 8.25$	$2x + b = 7$ $b = 2.3, \text{ rounded to one decimal place}$ $2.325 < x \leq 2.375$
$cx - 7 = 8$ $c = 2, \text{ rounded to one significant figure}$ $6 < x \leq 10$	$dx + e = 8$ $d = 2, \text{ rounded to one significant figure}$ $e = 3.7, \text{ rounded to one decimal place}$ $1.7 < x \leq 2.9$
$fx + 8 = g$ $f = 10, \text{ rounded to one significant figure}$ $g = 55, \text{ rounded to two significant figures}$ $3.1 < x < 5$	$hx + i = j$ $h = 2, i = 1, j = 3 \text{ all rounded to one s.f.}$ $0.4 < x < 1.7$

Task 21: Bounds in the media



newspapers regularly approximate numbers

what is the smallest and largest you think the actual numbers could have been?

- (1) a man received £500 for unfair dismissal
- (2) attackers stole £35 in cash
- (3) the air ambulance took 20 minutes
- (4) someone survived a 400 ft. fall into snow at Morte Base
- (5) "I knew Jean Kent for 50 years"
- (6) a salary of £24K
- (7) the collision happened around 2.30 a.m.
- (8) the Jaguar factory will create 700 jobs
- (9) 33 held in a 1000 person EU protest in the Ukraine
- (10) rowers embark on 3000 mile Atlantic charity bid
- (11) appeal has raised £34,500
- (12) unemployment is currently around 2.5 million
- (13) average daily sales of three quarters of a million
- (14) a £1.7M visitor centre scheme
- (15) Margaret Thatcher had a £12 million house in a tax haven
- (16) the US Government agrees to settle a \$50 million lawsuit
- (17) in 1982 New Zealand had 70 million sheep and 3.2 million people
- (18) the estimated 25,000 polar bear population are a species of special concern
- (19) £200,000 car vandalism spree
- (20) 25,000 waiting list for social housing