

Question 1: Work out the answers to the following multiplications

- | | | | | | | | |
|-----|-------------------|-----|-----------------|-----|------------------|-----|------------------|
| (a) | 1.2×4 | (b) | 3.2×3 | (c) | 5.3×2 | (d) | 7.3×3 |
| (e) | 1.6×4 | (f) | 2.9×5 | (g) | 4.2×6 | (h) | 9.5×7 |
| (i) | 6.7×8 | (j) | 3.8×9 | (k) | 12.8×3 | (l) | 24.3×4 |
| (m) | 37.5×6 | (n) | 52.8×7 | (o) | 173.2×3 | (p) | 215.8×6 |
| (q) | 1243.7×9 | (r) | 79.5×8 | | | | |

Question 2: Work out the answers to the following multiplications

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|-----|-------------------|-----|--------------------|-----|-------------------|-----|-------------------|
| (a) | 1.26×2 | (b) | 2.63×3 | (c) | 5.14×3 | (d) | 6.28×4 |
| (e) | 7.53×5 | (f) | 0.38×8 | (g) | 9.62×6 | (h) | 12.38×7 |
| (i) | 16.42×9 | (j) | 109.34×4 | (k) | 9.08×3 | (l) | 12.04×7 |
| (m) | 0.383×3 | (n) | 1.442×6 | (o) | 8.291×3 | (p) | 9.623×5 |
| (q) | 3.706×8 | (r) | 4.953×7 | (s) | 0.482×8 | (t) | 0.085×7 |
| (u) | 1.3842×3 | (v) | 4.3342×6 | (w) | 8.2039×5 | (x) | 7.3112×9 |
| (y) | 512.83×6 | (z) | 293.421×4 | | | | |

Question 3: Work out the answers to the following multiplications

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|-----|-------------------|-----|-------------------|-----|-------------------|-----|------------------|
| (a) | 1.24×13 | (b) | 2.51×17 | (c) | 12.5×23 | (d) | 3.28×21 |
| (e) | 6.35×35 | (f) | 7.65×37 | (g) | 58.2×46 | (h) | 4.23×52 |
| (i) | 0.28×57 | (j) | 0.817×63 | (k) | 38.43×19 | (l) | 5.45×87 |
| (m) | 12.32×73 | (n) | 2.3×123 | (o) | 4.7×253 | (p) | 8.6×351 |
| (q) | 2.03×152 | (r) | 1.02×607 | | | | |

Question 1: Write as a single power of m.

- (a) $m^2 \times m^3$ (b) $m^3 \times m^3$ (c) $m^6 \times m^2$ (d) $m^7 \times m^3$ (e) $m^6 \times m^8$ (f) $m^2 \times m$ (g) $m \times m^3$
(h) $m^7 \times m^8$ (i) $m^9 \times m^2$ (j) $m \times m^8$ (k) $m^6 \times m^5$ (l) $m^2 \times m^2 \times m^2 \times m^2$

Question 2: Write as a single power of n.

- (a) $n^5 \div n^2$ (b) $n^8 \div n^3$ (c) $n^9 \div n^2$ (d) $n^7 \div n^5$ (e) $n^3 \div n$ (f) $n^8 \div n$ (g) $n^7 \div n^4$
(h) $n^9 \div n^3$ (i) $n^4 \div n^8$ (j) $n \div n^3$ (k) $n^{45} \div n^5$ (l) $n^3 \div n^3$

Question 3: Write as a single power of a.

- (a) $\frac{a^5}{a^2}$ (b) $\frac{a^9}{a^3}$ (c) $\frac{a^{10}}{a^2}$ (d) $\frac{a^7}{a}$
(e) $\frac{a^{14}}{a^7}$ (f) $\frac{a^4}{a^4}$ (g) $\frac{a^3}{a^4}$ (h) $\frac{a^5}{a^9}$

Question 4: Write as a single power of y.

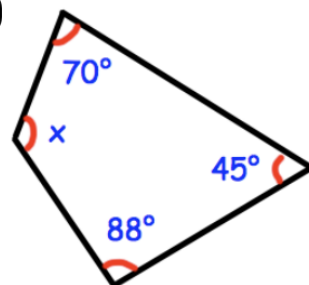
- (a) $(y^5)^2$ (b) $(y^3)^2$ (c) $(y^4)^3$ (d) $(y^5)^4$ (e) $(y^3)^6$ (f) $(y^7)^3$ (g) $(y^6)^6$
(h) $(y^9)^2$ (i) $(y^4)^8$ (j) $(y^3)^{-5}$ (k) $(y^{-5})^2$

Question 5: Write as a single power of y.

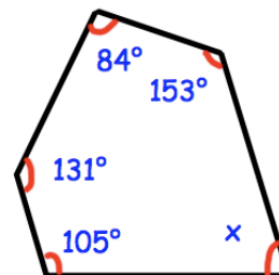
- (a) $y^7 \times y^3$ (b) $y^9 \div y^7$ (c) $y^6 \div y^2$ (d) $(y^3)^5$ (e) $y^7 \div y$ (f) $y^3 \div y^7$ (g) $(y^9)^5$
(h) $y^6 \times y^7$ (i) $y^6 \times y^5 \times y^2$ (j) $y^8 \times y \times y^3$ (k) $\frac{y^8}{y^5}$

Question 1: Find the missing angle in each irregular polygon

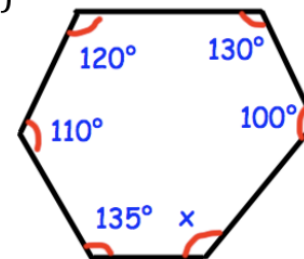
(a)



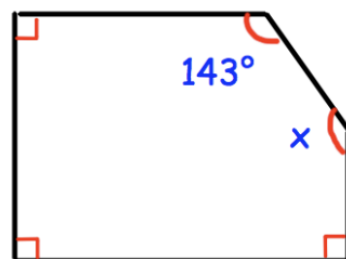
(b)



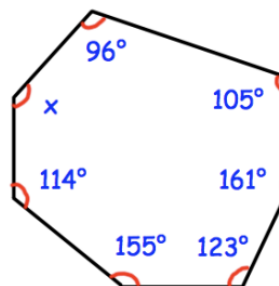
(c)



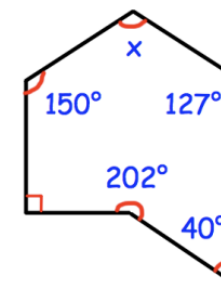
(d)



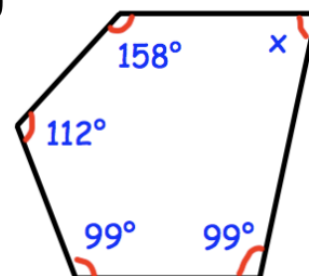
(e)



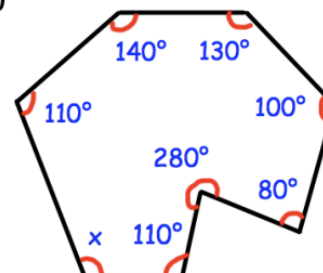
(f)



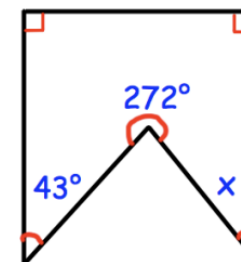
(g)



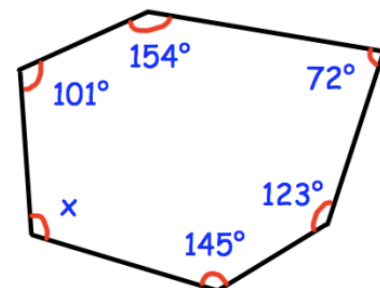
(h)



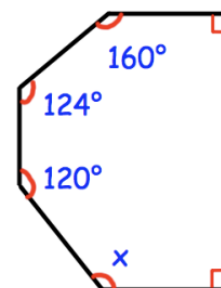
(i)



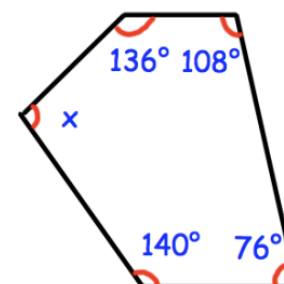
(j)



(k)



(l)



Question 1: Work out the median from each of the frequency tables.

(a)

Age	Frequency
18	2
19	3
20	13
21	1

(b)

Shoe Size	Frequency
5	2
6	11
7	5
8	4
9	1

(c)

Number of TVs	Frequency
0	3
1	15
2	9
3	11
4	1

(d)

Days absent	Frequency
0	31
1	8
2	3
3	4
4	1
5	3

(e)

Age	Frequency
5	12
6	20
7	23
8	65

(f)

Goals Scored	Frequency
0	2
1	4
2	5
3	8
4	0
5	1

Question 2: Work out which class interval contains the median for each table below.

(a)

Time taken	Frequency
$0 < t \leq 5$	5
$5 < t \leq 10$	14
$10 < t \leq 15$	10
$15 < t \leq 20$	1

(b)

Lifetime (months)	Frequency
$0 < t \leq 12$	1
$12 < t \leq 24$	9
$24 < t \leq 36$	13
$36 < t \leq 48$	56
$48 < t \leq 60$	21

(c)

Mass (Kg)	Frequency
$50 < m \leq 60$	41
$60 < m \leq 70$	39
$70 < m \leq 80$	28
$80 < m \leq 90$	6
$90 < m \leq 100$	2

(d)

Mass (Kg)	Frequency
$0 < m \leq 100$	123
$100 < m \leq 200$	290
$200 < m \leq 300$	2009
$300 < m \leq 400$	1817
$400 < m \leq 500$	584
$500 < m \leq 600$	177