mepp $M E P$ : Boook 5


## Outcome

Tally of 20 throws

## Pupil Totals

| H H |  |  |
| :---: | :--- | :--- |
| H and T |  |  |
| T T |  |  |


| Outcome Tally of 40 throws | Pupil Totals |
| :---: | :---: | :---: |
| H H H  <br> 1 H and 2 T  <br> 2 H and 1 T  <br> T T T  |  |

Outcome Class Totals
Relative frequency


LP113/5b

## Outcome <br> Class Totals <br> Relative frequency

| H H H |  |  |
| :---: | :--- | :--- |
| 1 H and 2 T |  |  |
| 2 H and 1 T |  |  |
| T T T |  |  |
|  |  |  |
|  |  |  |


| Pupil <br> Outcome <br> Total |  | Relative <br> frequency | Class <br> Throtal | Relative <br> frequency |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
| 1 and 1 |  |  |  |  |  |
| 1 and 2 |  |  |  |  |  |
| 1 and 3 |  |  |  |  |  |
| 1 and 4 |  |  |  |  |  |
| 1 and 5 |  |  |  |  |  |
| 1 and 6 |  |  |  |  |  |
| 2 and 2 |  |  |  |  |  |
| 2 and 3 |  |  |  |  |  |
| 2 and 4 |  |  |  |  |  |
| 2 and 5 |  |  |  |  |  |
| 2 and 6 |  |  |  |  |  |
| 3 and 3 |  |  |  |  |  |
| 3 and 4 |  |  |  |  |  |
| 3 and 5 |  |  |  |  |  |
| 3 and 6 |  |  |  |  |  |
| 4 and 4 |  |  |  |  |  |
| 4 and 5 |  |  |  |  |  |
| 4 and 6 |  |  |  |  |  |
| 5 and 5 |  |  |  |  |  |
| 5 and 6 |  |  |  |  |  |
| 6 and 6 |  |  |  |  |  |


| Sum | 0 | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 | 9 | 10 | 11 | 12 | 13 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Frequency |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Relative <br> frequency |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Probability |  |  |  |  |  |  |  |  |  |  |  |  |  |  |

$\underset{\text { Gep }}{\text { mid }}$. $M E P$ : Boook 5


$$
n=\square
$$

| Product | 1 | 2 | 3 | 4 | 5 | 6 | 8 | 9 | 10 | 12 | 15 | 16 | 18 | 20 | 24 | 25 | 30 | 36 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Frequency |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Relative <br> frequency |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |
| Probability |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |  |




| Outcome | Frequency | Relative <br> frequency |
| :---: | :---: | :---: |
| 1 | 145 |  |
| 2 | 168 |  |
| 3 | 189 |  |
| 4 | 186 |  |
| 5 | 162 |  |
| 6 | 150 |  |

$n=\square$

| Outcome | 1 | 2 | 3 | 4 | 5 |
| :---: | :--- | :--- | :--- | :--- | :--- |
| Frequency |  |  |  |  |  |
| Relative <br> frequency |  |  |  |  |  |



| Outcome | 1 | 2 | 3 | 4 | 5 | 6 | At least 5 | At most 5 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Probability |  |  |  |  |  |  |  |  |



| Outcome | 1 | 2 | 3 | 4 | 5 | 6 | At least 5 | At most 5 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| Probability |  |  |  |  |  |  |  |  |




| Outcome | 1 | 2 | 3 | 4 | 5 | 6 | 7 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Frequency | 11 | 12 | 13 | 10 | 12 | 14 | 28 |
| Relative <br> frequency |  |  |  |  |  |  |  |



LP 117/3




## Horizontal clues only

1. This word describes a number less than zero.
2. This word describes two straight lines in a plane which have no common point.
3. A quadrilateral with equal sides and equal angles.
4. A positive number with exactly two positive factors.
5. The number of vertices in a triangle.
6. This word describes number greater than zero.


## Horizontal clues only

1. This word describes a number less than zero.
2. This word describes two straight lines in a plane which have no common point.
3. A quadrilateral with equal sides and equal angles.
4. A positive number with exactly two positive factors.
5. The number of vertices in a triangle.
6. This word describes number greater than zero.



| Jan. | Feb. | Mar. | Apr. | May | Jun. | Jul. | Aug. | Sep. | Oct. | Nov. | Dec. |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |








| Time (hours) | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Temperature | 10.6 | 10.0 | 9.5 | 11.1 | 15.2 | 20.9 | 25.0 | 28.3 | 29.0 | 26.1 | 21.0 | 17.4 | 13.0 | $\left({ }^{\circ} \mathrm{C}\right)$


| Time (hours) | 0 | 2 | 4 | 6 | 8 | 10 | 12 | 14 | 16 | 18 | 20 | 22 | 24 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Temperature | -10 | -11 | -11 | -10 | -8 | -3 | 1 | 4 | 5 | 2 | 0 | -4 | -8 | $\left({ }^{\circ} \mathrm{C}\right)$

Temperature $\left({ }^{\circ} \mathrm{C}\right)$




LP 121/4
a)

b)

|  | 2 | 2 | 0 | 8 | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: |
| - |  | 6 | 7 | 0 | 9 |
|  |  |  |  |  |  |

c)

a)

$$
\begin{array}{|c|c|c|c|c|}
\hline & 1 & 0.2 & \\
\hline & 1 & 0 & 3.4 & 5 \\
+ & & 6 & 2.9 & 7 \\
\hline
\end{array}
$$

b)

$$
\begin{array}{|c|c:c|c|}
\hline & 3 & 6.8 & 2 \\
- & 1 & 4.5 & 9 \\
\hline & & & \\
\hline
\end{array}
$$

c) $\square$
d)
$4 \longdiv { 6 . 8 }$


| 63 | 64 | 65 | 66 | 67 |
| :--- | :--- | :--- | :--- | :--- |
| 73 | 74 | 75 | 76 | 77 |
| 83 | 84 | 85 | 86 | 87 |
| 93 | 94 | 95 | 96 | 97 |

LP 122/3

## Daisies



99 p a bunch

## Roses




a) i) $3+2=$
ii) $3+0=$
iii) $3+(-2)=$ iv) $3+(-4)=\quad$ v) $3+(-6)=$
b) i) $-3+(-2)=$
ii) $-3+0=$
iii) $-3+2=$ iv) $-3+4=$
v) $-3+6=$
c) i) $25+(-41)+12+(-10)=$
ii) $-100+(-30)+78+(-48)=$
iii) $5000+(-2000)+(-3000)=$
iv) $-85000+(-15000)+(-20000)=$
v) $-236700+0=$
a) i$) 20-(+14)=$
b) i) $20+(-14)=$
ii) $20-(+36)=$
ii) $20+(-36)=$
iii) $40-(+40)=$
iii) $40+(-40)=$
iv) $35-(-20)=$
v) $-30-(-10)=$
vi) $-30-(-30)=$
vii) $-20-(-50)=$
viii) - $20-(+30)=$
iv) $35+(+20)=$
v) $-30+(+10)=$
vi) $-30+(+30)=$
vii) $-20+(+50)=$
viii) $-20+(-30)=$
a) 56437 rounded to the nearest hundred is $\square$
b) 3620 is 3615 rounded to the nearest $\square$
c) $46.5 \approx 47$ shows that $\square$ rounds up to the next greater place-value.
d) The inequality $2055 \leq x<2065$ shows the possible values of $x$ which round to $\square$ as the nearest ten.
e) The inequality $\square$ shows the possible values of $x$ which round to 10.40 as the nearest hundredth.
a) to the nearest 10

6208 ~
$14035 \approx$
$90455 \approx$
$383 \approx$
$9999 \approx$
$62.08 \approx$
$140.35 \approx$
$904.55 \approx$

$$
3.83 \approx
$$

$$
99.99 \approx
$$



a)

$$
\begin{array}{|c|c|c|c|c|} 
& 3 & 7 & 0 & 2 \\
\hline 1 & 4 & 9 . & 4 & \\
+ & 6 & 8 & 9 & 9 \\
\hline & & & & \\
\hline
\end{array}
$$

b) 78.39

|  | 9.5 | 3 |  |
| ---: | ---: | ---: | ---: |
|  |  |  |  |

c)

d)
$6 \longdiv { 4 5 . 0 6 }$
a) $650-(450+120)=$ or:
b) $650-(450-120)=$ or:
c) $50 \times(12+38)=$ or:
d) $(200-180) \times 7=$ or:
e) $(90+72) \div 18=$ or:

a)

| $a$ | -1301 | $73 \frac{1}{2}$ | -2.4 | 584 |  | $-\frac{4}{5}$ |  | $1 \frac{1}{8}$ |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $b$ | -1297 | $77 \frac{1}{2}$ | 1.6 |  | 3.1 |  | -1 |  |

b)

| $u$ | 1248 | 0 | -9 | $\frac{6}{10}$ | -102 | $3 \frac{3}{20}$ |  | 6.9 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $v$ | 416 | 0 | -3 | $\frac{2}{10}$ |  |  | -210 | $1 \frac{1}{2}$ |  |

a) $843+(157+36)=1000+\square$
b) $843+(157+k)=1000 \square k$
c) $(843+41)+157=1000 \square 41$
d) $(843+n)+157=1000+\square$
e) $843+(157-69)=1000$ 69
f) $843+(157-t)=1000-\square$
g) $(843-55)+157=1000-\square$
h) $(843-u)+157=1000 \square u$
i) $(843+16)+(157+16)=1000 \square$ $\square$
j) $(843+x)+(157+x)=1000$ $\square$
$\square$
k) $(843+72)+(157-72)=\square$

1) $(843+y)+(157-y)=\square$
a) $(685+15)-185=500+\square$
b) $(685+a)-185=500 \square a$
c) $685-(185+23)=500 \square 23$
d) $685-(185+b)=500-\square$
e) $(685-45)-185=500 \square 45$
f) $(685-c)-185=500 \square c$
g) $685-(185-30)=500 \square 30$
h) $685-(185-d)=500+\square$
i) $(685+51)-(185+51)=\square$
j) $(685+e)-(185+e)=\square$
k) $(685+4)-(185-4)=500 \square \square$
2) $(685+f)-(185-f)=500 \square \square$
m) $(685-10)-(185+10)=500 \square \square$
n) $(685-g)-(185+g)=500 \square$
a)

| $u$ | 4 | 1.5 | 0.6 | -2 |  | $3 \frac{1}{6}$ |  | 105 |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $v$ | 1 | 3.5 | 4.4 | 7 | -1.5 |  | $\frac{12}{5}$ |  | $-1 \frac{3}{4}$ |

b)

| $s$ | 5000 | 100 | 400 | 1 |  | 10 | 50 |  | 2.5 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $t$ | 2 | 100 | 25 |  | 8 |  |  | $\frac{1}{2}$ |  |


a) $(1500 \times 2) \div 30=50 \times \square$
b) $(1500 \times a) \div 30=50$ $\square$
c) $1500 \div(30 \times 2)=50 \square 2$
d) $1500 \div(30 \times a)=50 \div \square$
e) $(1500 \div 2) \div 30=50 \div \square$
f) $(1500 \div a) \div 30=50 \square a$
g) $1500 \div(30 \div 2)=50 \square 2$
h) $1500 \div(30 \div a)=50 \times \square$
i) $(1500 \times 2) \div(30 \div 2)=50 \square \square$
j) $(1500 \times a) \div(30 \div a)=50 \square$ $\square$
k) $(1500 \div 2) \div(30 \times 2)=50$ $\square$
$\square$

1) $(1500 \div a) \div(30 \times a)=50$ $\square$
$\square$
m) $(1500 \times 2) \div(30 \times 2)=50$ $\square$
$\square$
n) $(1500 \times a) \div(30 \times a)=50 \square$ $\square$
o) $(1500 \div 2) \div(30 \div 2)=50$ $\square$
$\square$
p) $(1500 \div a) \div(30 \div a)=50$ $\square$
$\square$
a) i) $143 \mathrm{~m} 45 \mathrm{~cm}=\square \mathrm{cm}$
ii) $375 \mathrm{~cm}=\square \mathrm{m}$
iii) $62 \mathrm{~cm} 4 \mathrm{~mm}=\square \mathrm{mm}$
iv) $816 \mathrm{~mm}=\square \mathrm{cm}=\square \mathrm{m}$
v) $42 \mathrm{~km} 60 \mathrm{~m}=\square \mathrm{m}$ vi) $4950 \mathrm{~m}=\square \mathrm{km}$
b) i) 4 litres $5 \mathrm{cl}=\square \mathrm{cl}$
ii) $1230 \mathrm{cl}=\square \ell$
iii) $3 \mathrm{cl} 6 \mathrm{ml}=\square \mathrm{ml}$
iv) $720 \mathrm{ml}=\square \mathrm{cl}=\square$ litres
c) i) $61 \mathrm{~kg} \mathrm{80g}=\square \mathrm{g}$
iii) $4 \mathrm{t} 380 \mathrm{~kg}=\square \mathrm{kg}$
ii) $5200 \mathrm{~g}=\square \mathrm{kg}$
iv) $6025 \mathrm{~kg}=\square \mathrm{t}$

| Monday to Friday | Saturday | Sunday |
| :---: | :---: | :---: |
| 9 am |  |  |
| 2 pm | 11.30 am | No <br> collection |
| 6.30 pm |  |  |



## Car Park Charges

Up to 1 hour
1 to 2 hours
2 to 3 hours
3 to 4 hours
Over 4 hours

Charge
20 p
50 p
£1.00
£1.70
£5.00


LP 129/7

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LP 130/3

| $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| :---: | :---: | :---: | :---: | :---: |
| $\bullet$ | $\bullet$ |  |  |  |
| $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
| $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ | $\bullet$ |
|  |  | $\bullet$ |  | $\bullet$ |



Triangles
Quadrilaterals
Has at least 1 right angle
a) All rectangles are quadrilaterals.
c) Every quadrilateral is a rectangle but not every rectangle is a quadrilateral.
e) The adjacent sides of any rectangle are equal to each other.
g) Every trapezium has only 1 pair of parallel sides.
i) All quadrilaterals with equal angles are rectangles.

True:
False:



LP 131/2

|  |  |  |  |  |  |  |  |  |  | \% | \% |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | + |  |
|  |  |  |  |  |  |  |  |  |  |  | + |
|  |  |  |  |  |  |  |  |  |  | - | - |
|  |  |  |  |  |  |  |  |  |  | - |  |
|  |  |  |  |  |  |  |  |  |  |  | \% |


|  |  |  |  |  |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  | $\square$ |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |  |  |  | : |
|  |  |  |  |  |  |  |  |  |  |  |











mep $M E P$ : Boook 5

-8 LP 132/2c
mepp $M E P$ : Boook 5





$$
P=u+v+w
$$

$$
A=a \times b
$$

$$
P=2 \times a+2 \times b
$$

$$
A=\frac{e \times e}{2}
$$

$$
A=\frac{e \times f}{2} \quad P=4 \times a \quad A=\frac{u \times h}{2}
$$

$$
A=\frac{u \times v}{2}
$$



$$
A=a \times a
$$

LP 133/3


LP 133/4




Polyhedra



LP 134/4


a) | $e$ | 7 | -2.8 | $\frac{3}{4}$ | 0.81 |  | $-19 \frac{1}{0}$ |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $f$ | -14 | 5.6 | $-\frac{3}{2}$ |  | 6326 |  | $-\frac{5}{7}$ |

b) | $u$ | 1 | 10 | 6 | 100 | 2 |  | -2 |  | 3.3 | 0 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $v$ | 2 | 29 | 17 | 299 |  | 8 |  | 44 |  |  |

c) | $x$ | 0 | 1 | 2 | 3 | 8 | 4 | 5 |  | 7 |  |  | 11 |
| :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- | :--- |
| $y$ | 1 | 2 | 5 | 10 | 65 |  |  | 36 |  | 82 | 101 |  |

| Mass | Cost |  |
| :---: | :---: | :---: |
|  | First class | Second class |
| Letter Up to 100 g | 85p | 66p |
| Large Letter |  |  |
| Up to 100 g | £1.29 | £0.96 |
| " 250 g | £1.83 | $£ 1.53$ |
| 500 g | £2.39 | $£ 1.99$ |
| " 750 g | $£ 3.30$ | $£ 2.70$ |





LP 135/6
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August 2020
Sun Mon Tue Wed Thu Fri Sat

|  |  |  |  |  |  | 1 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 2 | 3 | 4 | 5 | 6 | 7 | 8 |
| 9 | 10 | 11 | 12 | 13 | 14 | 15 |
| 16 | 17 | 18 | 19 | 20 | 21 | 22 |
| 23 | 24 | 25 | 26 | 27 | 28 | 29 |
| 30 | 31 |  |  |  |  |  |

a)

| $a$ | 5 | 1.3 | 103 | 40 | 6 |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $b$ | 2 | 2.4 | 76 | 25 |  | $2 \frac{1}{5}$ | $\frac{1}{10}$ |
| $P$ | 14 | 7.4 | 358 |  | 18 | $6 \frac{2}{5}$ | $\frac{3}{5}$ |

b)

| $e$ | 3 | 5.8 | 10 | 30 | 9 |  | 1.4 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $f$ | 4 | 2 | 200 | 60 |  | $4 \frac{3}{4}$ | 5 |
| $A$ | 6 | 5.8 | 1000 |  | 45 | $4 \frac{3}{4}$ |  |

c)

| $e$ | 1 | 2 | 3 | 10 | 4 |  | 6 |  | 8 | 9 | 11 |
| :--- | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $A$ | $\frac{1}{2}$ | 2 | 4.5 | 50 |  | $12 \frac{1}{2}$ |  | 24.5 |  |  |  |





Base set


LP 137/5

$\pi$



## $0<x<25$; whole numbers





Pea Soup

## Tomato Soup

## Chicken Soup

Mushroom Soup

