



# Maths week of 25th of May

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Brackets



Q 164

Q1

(a)

(i)  $6 + (8^1 + 9) = 23$

(b)

$(19^1 - 8) - 7 = 4$

(c)

$81 \div (9^3 \div 3) = 27$

(d)

$3 \times (4^{24} \times 6) = 72$

(e)

$(14^{20} + 6) - 5 = 15$

(l)

$9 + (4^1 + 7) = 20$

(m)

$(3 \times 5^{15}) + 6 = 21$

(n)

$(18 + 12^3) \div 6 = 5$

(o)

$(72^8 \div 9) - 3 = 5$

(ii)

$(6 + 8^1) + 9 = 23$

$19 - (8^1 - 7) = 18$

$(81 \div 9^1) \div 3 = 3$

$(3 \times 6^2) \times 6 = 72$

$14 + (6^1 - 5) = 15$

$(9 + 4^1) + 7 = 20$

$3 \times (5 + 6^1) = 33$

$18 + (12^2 \div 6) = 20$

$72 \div (9 - 3) = 12$

Q 4 ( ) Answer Always the same

(a)  $(4 \times 2) \times 6$      $4 \times (2 \times 6)$      $(4+2)$

$(9+4)+7$      $(9+7)+4$     20

$(2 \times 5) \times 7$      $(5 \times 7) \times 2$     70

$(5 \times 9) \times 3$      $(9 \times 3) \times 5$     135

Answer diff depend on ( )

(b)  $7 \times (5^2 - 3) = 14$      $(7 \times 5)^3 - 3 = 32$

$(64^8 \div 8) - 4 = 4$      $64 \div (8^4 - 4) = 16$

$(72^8 \div 9) - 3 = 5$      $72 \div (9^6 - 3) = 12$

$8 \times (6^2 - 4) = 16$      $(8 \times 6)^4 - 4 = 20$

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Q5

$$\begin{aligned}2 + (8 + 3) &= 13 & (2 + 8) + 3 &= 13 & \text{Same} \\(9 + 21) \div 3 &= 10 & 9 + (21 \div 3) &= 16 & \text{Diff} \\(5 \times 4) + 3 &= 23 & 5 \times (4 + 3) &= 35 & \text{Diff} \\2 \times (5 \times 7) &= 70 & (2 \times 5) \times 7 &= 70 & \text{Same} \\8 \times (6 - 4) &= 16 & (8 \times 6) - 4 &= 44 & \text{Diff} \\30 \div (3 \times 5) &= 2 & (30 \div 3) \times 5 &= 50 & \text{Diff} \\16 \div (4 \div 2) &= 8 & (16 \div 4) \div 2 &= 2 & \text{Diff} \\7 \times (2 \times 5) &= 70 & (7 \times 2) \times 5 &= 70 & \text{Same}\end{aligned}$$

**Q6**

$$\begin{aligned}11 \cdot 64 + (3 \cdot 25 + 5 \cdot 4) &= 20 \cdot 29 & (11 \cdot 64 + 3 \cdot 25) + 5 \cdot 4 &= 20 \cdot 29 \\& \text{Same}\end{aligned}$$

$$(22 \cdot 05 - 7) - 4 \cdot 74 = \underline{10 \cdot 31} \quad 22 \cdot 05 - (7 - 4 \cdot 74) = \underline{19 \cdot 74}$$

~~Diff~~

$$(42 \div 6) + 4 \cdot 5 = \underline{11 \cdot 5} \quad 42 \div (6 + 4 \cdot 5) = \underline{4}$$

~~Diff~~

$$40 \cdot 5 \div (5 - 3 \cdot 5) = \underline{27} \quad (40 \cdot 5 \div 5) - 3 \cdot 5 = \underline{4 \cdot 6}$$

~~Diff~~

$$(847 - 349) + 213 = \underline{711} \quad 847 - (349 + 213) = \underline{285}$$

~~Diff~~

$$(28 \times 46) + 74 = \underline{1,362} \quad 28 \times (46 + 74) = \underline{3,360}$$

~~Diff~~

Work it out p 165

$$\textcircled{a} \quad 6 \times (5 + 4) = 66$$

$$\textcircled{b} \quad (4 \times 12) - 16 = 32$$

$$\textcircled{c} \quad (3 \times 6) \times 5 = 90$$

$$\textcircled{d} \quad (400 \div 10) - 12 = 28$$

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$$\textcircled{a} \quad 5 + 6 \times 3 = 5 + (6 \times 3) = 23$$

$$\textcircled{b} \quad 20 - 18 \div 3 = 20 - (18 \div 3) = 14$$

$$\textcircled{c} \quad 16 + 30 \div 6 = 16 + (30 \div 6) = 21$$

$$\textcircled{d} \quad 40 - 3 \times 10 = 40 - (3 \times 10) = 10$$

$$\textcircled{e} \quad 33 \div 3 - 6 = (33 \div 3) - 6 = 27$$

$$\textcircled{f} \quad 6 + 3 \times 9 = 6 + (3 \times 9) = 33$$

$$\textcircled{g} \quad 5 \times 8 - 7 = (5 \times 8) - 7 = 33$$

$$\textcircled{h} \quad 28 \div 4 - 6 = (28 \div 4) - 6 = 1$$

② Pg 167 a2 a-c m-t

② (15<sup>a</sup>-6)+4=13

③ (19<sup>b</sup>-3)+6=22

④ (6<sup>c</sup>÷2)×3=9

⑤ (30<sup>d</sup>÷2)×5=75

⑥ (4<sup>e</sup>+10)-(5+8)=1

⑦ (3<sup>f</sup>×4)-(63<sup>g</sup>÷9)=5

⑧ (48<sup>h</sup>÷6)-(15<sup>i</sup>÷3)=3

⑨ (6<sup>j</sup>×4)+(5<sup>k</sup>×2)=34

⑩ (64<sup>l</sup>÷8)-(63<sup>m</sup>÷9)=1

⑪ (6<sup>n</sup>+3)+(4<sup>o</sup>+7)=20

⑫ (28<sup>p</sup>-5)-(6<sup>q</sup>-2)=19

⑬ (2<sup>r</sup>×4)×(3<sup>s</sup>×1)=24

t (72<sup>t</sup>÷2)÷3÷4

(36<sup>u</sup>÷3)÷4

12÷4=3

a Work it out pg

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$$(i) (9 \times 5) + 2 = 47$$

$$(ii) (84 - 3) \div 9 = 9$$

$$(iii) (4 \times 6) - 3 = 21$$

$$(iv) (18 - 4) - 3 = 6$$

$$(v) (49 \div 7) + 5 = 12$$

$$(vi) (7 \times 8) \div 4 = 14$$



Problem Solving Busy at Maths

$$\textcircled{a} \quad (\overset{\text{€35}}{\text{€5}} \times 7) + \text{€10} = 45$$

$$\textcircled{b} \quad (12 \overset{60}{\times} 5) - 7 = 53$$

$$\textcircled{c} \quad (\overset{217}{31} \times 7) + 22 = 239$$

$$\textcircled{d} \quad \begin{array}{l} \text{Table} \quad \text{Chair } \text{€100} \\ (\text{€125} \times 10) + 10 \times (\text{€20} \times 5) = \\ \text{€1,250} + \text{€1,000} = 2,250 \end{array}$$

$$\textcircled{e} \quad (3 \times \overset{180}{60} \text{ mins}) + 52 \text{ mins} = 232 \text{ mins}$$

Busy at maths pg 167 q2

$$\textcircled{2} \textcircled{a} (2 \times \overset{70}{\pounds 35}) + (3 \times \overset{5}{\pounds 5}) = \pounds 85$$

$$\textcircled{b} (\overset{\pounds 140}{4 \times \pounds 35}) - \pounds 35 = \pounds 105$$

$$\textcircled{c} (\overset{\pounds 100}{5 \times \pounds 20}) + (\overset{\pounds 20}{4 \times \pounds 5}) = \pounds 120$$

$$\textcircled{d} (\overset{\pounds 100}{5 \times \pounds 20}) + (\overset{\pounds 20}{4 \times \pounds 5}) - \overset{\pounds 20}{20} = \pounds 100$$

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$$\textcircled{3} \textcircled{a} (\overset{\pounds 3}{2 \times \pounds 1.50}) + (\overset{10.65}{3 \times \pounds 3.55}) = 13.65$$

$$\textcircled{b} (\overset{\pounds 3.50}{2 \times \pounds 1.75}) + (\overset{\pounds 9.75}{3 \times \pounds 3.25}) + \overset{+ 3.55}{\pounds 3.55} = 16.80$$

$$\pounds 1.75 \quad \pounds 8.40 \quad - \pounds 2.80$$

$$\textcircled{c} \pounds 1.75 + (3 \times \pounds 2.80) - \pounds 2.80 = \pounds 7.35$$