Mata Rang 5: Straitéisí Meabhracha & Réiteach Fadhbanna

1ú -5ú Meitheamh

Caibidil 22 Straitéisí Meabhracha 2

Ag iolrú faoi 10, 100, 1000

$$(4 \times 10 = 40) \qquad (4 \times 100 = 400) \qquad (4 \times 1000 = 4000)$$

Déan iad seo anois.

1. (a) 7×10 (b) 8×10 (c) 12×10 (d) 18×10 (e) 25×10
   (f) 43×10 (g) 68×10 (h) 172×10 (i) 153×10 (j) 268×10

2. (a) 4×100 (b) 19×100 (c) 37×100 (d) 43×100 (e) 56×100
   (f) 79×100 (g) 126×100 (h) 236×100 (i) 349×100 (j) 879×100

3. (a) 3×1000 (b) 16×1000 (c) 28×1000 (d) 54×1000 (e) 47×1000
   (f) 10×1000 (g) 71×1000 (h) 82×1000 (i) 89×1000 (j) 99×1000

Ag roinnt ar 10, 100, 1000

$$(6000 \div 10 = 600) \qquad (6000 \div 100 = 60) \qquad (6000 \div 1000 = 6)$$

Déan iad seo anois.

4. (a) $70 \div 10$ (b) $80 \div 10$ (c) $40 \div 10$ (d) $50 \div 10$ (e) $90 \div 10$
   (f) $180 \div 10$ (g) $240 \div 10$ (h) $360 \div 10$ (i) $480 \div 10$ (j) $950 \div 10$
   (k) $2680 \div 10$ (l) $4890 \div 10$ (m) $6740 \div 10$ (n) $8940 \div 10$ (o) $9630 \div 10$

5. (a) $200 \div 100$ (b) $400 \div 100$ (c) $600 \div 100$ (d) $800 \div 100$
   (e) $9000 \div 100$ (f) $1800 \div 100$ (g) $2900 \div 100$ (h) $3600 \div 100$
   (i) $7600 \div 100$ (j) $8700 \div 100$ (k) $36\,900 \div 100$ (l) $43\,400 \div 100$

6. (a) $2000 \div 1000$ (b) $4000 \div 1000$ (c) $8000 \div 1000$ (d) $9000 \div 1000$
   (e) $13\,000 \div 1000$ (f) $26\,000 \div 1000$ (g) $41\,000 \div 1000$ (h) $83\,000 \div 1000$
   (i) $64\,000 \div 100$ (j) $72\,000 \div 1000$ (k) $79\,000 \div 100$ (l) $96\,000 \div 1000$

Ag baint úsáide as 10 chun iolrú faoi 5 agus faoi 20

$$(24 \times 5 = \boxed{?}) \qquad 24 \times 5 \Rightarrow 24 \times 10 \text{ agus roinn ar } 2$$
$$\Rightarrow 240 \div 2 = \boxed{120}$$

Déan iad seo sa tslí chéanna anois.

7. (a) 22×5 (b) 30×5 (c) 32×5 (d) 36×5 (e) 48×5
   (f) 18×5 (g) 26×5 (h) 44×5 (i) 52×5 (j) 66×5
   (k) 54×5 (l) 64×5 (m) 72×5 (n) 96×5 (o) 78×5

$$(26 \times 21 = \boxed{?}) \qquad 26 \times 21 \Rightarrow (26 \times 10) + (26 \times 10) + (26 \times 1)$$
$$\Rightarrow 260 + 260 + 26 = \boxed{546}$$

Déan iad seo sa tslí chéanna anois.

8. (a) 22×22 (b) 18×21 (c) 32×21 (d) 42×22 (e) 24×19
   (f) 28×19 (g) 36×18 (h) 41×18 (i) 52×21 (j) 63×22

Suitheanad: Straitéisí Meabhracha: Scimiú Deaki. Iniú. Roinnt

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Straitéisí Meabhracha / Mental Strategies

Ceisteanna 1, 2 & 3
Ag iolrú faoi 10, 100, 1000 (multiplying by 10, 100, 1000)
Scríobh amach uimhirabairtí iomlána e.g.
1(a) 7 x 10 = 70
2(a) 4 x 100 = 400
3(a) 10 x 1000 = 10000

Críochnaigh ceisteanna 1, 2 & 3 anois.

Ceisteanna 4, 5 & 6
Ag roinnt ar 10, 100, 1000 (dividing by 10, 100, 1000)
Scríobh amach uimhirabairtí iomlána e.g.

Críochnaigh ceist 4, 5, 6 anois.

$$4(a) \quad 7\cancel{0} \div 1\cancel{0} = 7$$
$$5(a) \quad 2\cancel{0}\cancel{0} \div 1\cancel{0}\cancel{0} = 2$$
$$6(a) \quad 2\cancel{0}\cancel{0}\cancel{0} \div 1\cancel{0}\cancel{0}\cancel{0} = 2$$

Ceist 7 & 8
✓ Using x10 to multiply by 5 and 20 e.g.
24 x 5
⇒ 24 x 10 = 240 (multiply by 10 first as 10 is 5 x 2)
⇒ 240 ÷ 2 = 120 (divide your answer by 2, as 5 is half of 10)

24 x 21
⇒ (24 x 10) + (24 x 10) + (24 x 1)
⇒ 240 + 240 + 24 = 504
Críochnaigh ceisteanna 7 & 8 anois.

Straitéisí meabhracha

faigh leath de

$23 \times 16 = ?$ $23 \times 16 \Rightarrow 46 \times 8 = 368$

déan é a dhúbailt

9. (a) 17×14 (b) 21×18 (c) 31×12 (d) 19×16 (e) 49×20
(f) 35×12 (g) 29×14 (h) 77×20 (i) 27×18 (j) 45×16

Úsáid a bhaint as 100 chun iolrú faoi 50

$16 \times 50 = ?$ $16 \times 50 \Rightarrow 16 \times 100$ faigh leath den fhreagra
     $\Rightarrow 1600 \div 2 = 800$

10. (a) 18×50 (b) 22×50 (c) 28×50 (d) 24×50 (e) 36×50
(f) 43×50 (g) 57×50 (h) 75×50 (i) 81×50 (j) 99×50

Iolraigh na deicheanna agus na haonaid leo féin

$94 \times 6 = ?$ $94 \times 6 \Rightarrow (90 \times 6) + (4 \times 6)$
     $\Rightarrow 540 + 24 = 564$

11. (a) 64×7 (b) 32×9 (c) 46×8 (d) 38×6 (e) 54×8
(f) 47×5 (g) 72×4 (h) 42×9 (i) 36×8 (j) 45×6

Úsáid a bhaint as 100 chun iolrú faoi 25

$24 \times 25 = ?$ $24 \times 25 \Rightarrow 24 \times 100$ agus ansin roinn ar 4
     $\Rightarrow 2400 \div 4 = 600$

12. (a) 8×25 (b) 14×25 (c) 18×25 (d) 22×25 (e) 28×25
(f) 32×25 (g) 36×25 (h) 44×25 (i) 56×25 (j) 64×25
(k) 23×25 (l) 35×25 (m) 34×25 (n) 47×25 (o) 53×25

Úsáid a bhaint as 100 nó 50 chun iolrú faoi 48, 49, 51 agus 52

$26 \times 49 = ?$ $26 \times 49 \Rightarrow 26 \times 100$ faigh leath den fhreagra. Ansin dealaigh 26×1.
     $\Rightarrow 2600 \div 2 \Rightarrow 1300 - 26 = 1274$

$28 \times 52 = ?$ $28 \times 52 \Rightarrow 28 \times 100$ faigh leath den fhreagra. Ansin suimigh 28×2.
     $\Rightarrow 2800 \div 2 \Rightarrow 1400 + 56 = 1456$

13. (a) 14×49 (b) 18×49 (c) 22×49 (d) 28×49 (e) 38×49
(f) 24×48 (g) 26×48 (h) 34×48 (i) 42×48 (j) 48×48

14. (a) 26×51 (b) 36×51 (c) 44×51 (d) 52×51 (e) 58×51
(f) 29×52 (g) 34×52 (h) 42×52 (i) 56×52 (j) 64×52

Ceist 9: Déan b,c,d,e,f

Simplifying long multiplication e.g.

9(a)   double 17 ($\times 2$) $17 \times 14 \Rightarrow 34 \times 7$ halve 14 ($\div 2$)

Ceist 10: Déan b,c,d,e,f

Using x100 to multiply by 50 e.g.

10(a) 18×50
$\Rightarrow 18 \times 100 = 1800$ (doubled 50 to 100. Easier to $\times 100$
$\Rightarrow 1800 \div 2 = 900$ (divide answer by 2 to find $\times 50$)

Ceist 11: Déan b,c,d,e,f

Separate the tens and units and multiply them individually e.g.

11(a) $64 \times 7 \Rightarrow (60 \times 7) + (4 \times 7)$
$\Rightarrow 420 + 28$
$= 448.$

Ceist 12: Déan b,c,d,e,f

Using x100 to multiply by 25 (25 is ¼ of 100) e.g.

12(a) $8 \times 25 \Rightarrow (8 \times 100) \div 4$
$\Rightarrow 800 \div 4 = 200.$

12(o) $53 \times 25 \Rightarrow (53 \times 100) \div 4$
$5,300 \div 4 = 1,325.$

An síol a chur

Is feighlí é Colm agus thóg sé 4 lá air síol féir a chur sa pháirc imeartha toisc go raibh báisteach ag titim gach lá.

Dé Luain bhí síol curtha aige i $\frac{1}{2}$ den pháirc nuair a thosaigh an bháisteach.

Bhí síol curtha aige i $\frac{2}{3}$ den pháirc ag deireadh an dara lá.

Maidin Dé Céadaoin chuir sé $\frac{1}{2}$ den mhéid a bhí fágtha.

Déardaoin chríochnaigh sé an obair.

D'úsáid sé 10kg síol Déardaoin.

Cé mhéad síol ar fad a d'úsáid sé?

Seo linn ar an traein

Ní dhéanann an traein ó Chorcaigh go Luimneach ach roinnt bheag stopanna. Ligtear amach roinnt paisinéirí nuair a bhíonn $\frac{1}{8}$ den turas déanta. Leanann an traein ar aghaidh ar feadh 30km agus stopann sí arís ag pointe leath bealaigh. Déantar aon stop amháin eile chun an chuid dheireanach den turas a roinnt ina dhá leath.

Cén fad é an turas?

An Zú Beag

Tá cúinne sa Zú Beag ina bhfuil 5 ghrúpa éagsúla d'ainmhithe beaga. Tá leath de na hainmhithe, na hamstair, sa chéad chás. Tá na muca guine, $\frac{1}{6}$ de na hainmhithe, sa dara cás. Lucha bána atá sa tríú cás agus $\frac{1}{6}$ de na hainmhithe is ea iad. Tá lucha dubha agus lucha liatha sa chás seo freisin. Lucha dubha is ea $\frac{1}{12}$ de na hainmhithe agus tá dhá luch liatha ann.

Cé mhéad ainmhí atá i ngach cás?
Cé mhéad ainmhí ar fad atá ann?

Sowing seeds

Colm is a caretaker and it took him 4 days to seed the playing field because it started to rain each day.

He had seeded ½ the pitch on Monday when it started to rain.

At the end of the second day, he had seeded two thirds of the field.

On Wednesday, he was able to seed ½ the remaining field. He finished the work on Thursday. He used 10kg of seed that day.

➢ How much seed did he use altogether?

Train journey

The Cork-Limerick train makes very few stops. Some passengers alight when one eighth of the journey is done. The train then continues for another 30 km and when it stops, it is at the halfway point of the journey. The train only makes one more stop after that which divides the last part of the journey in two.

➢ How long is the journey?

The Zoo.

A small corner of the zoo houses 5 different groups of animals. Half of the animals, the hamsters are in the first cage. The guinea pigs, which are one sixth of the animals, are in the second cage. There are white mice in the third cage. One sixth of the animals are white mice. There are also black and grey mice in this cage. One twelfth of the mice are black and there are two grey mice.

➢ How many animals are in each cage?
➢ How many animals are there in total?

Tairiscint speisialta

Tá tairiscint speisialta ag **Píotsaí Pléisiúrtha**.

Cosnaíonn píotsa: €1·80. Cosnaíonn sceallóga: €1·20. Cosnaíonn deochanna: €0·60.

Má tá €6·00 agat, cé mhéad teaglaim éagsúil is féidir a cheannach ag baint úsáide as an airgead go léir gach uair?

€1·80	€1·20	€0·60
2	2	0

Special Offers!

Pleasure Pizza has a number of special offers available:

Pizza = €1.80 Chips = €1.20 Drinks = €0.60

➢ If you have €6.00 to spend, how many different things can you buy using the full €6.00 every time?

Táblaí na Seachtaine: 5, 10