

Hersiening Inoefening Vaslegging
Graad 5 – Kwartaal 2 – Werkopdrag 1 – 2024
Vermenigvuldiging en deling
MEMORANDUM

Afdeling A – Veelvoude en faktore:

1. Beantwoord die vrae oor veelvoude:

- 1.1 4; 8; 12; 16; 20 (1)
1.2 7; 14; 21; 28; 35 (1)
1.3 18; 21; 24; 27 (1)
1.4 30; 36 (1)
- 2.1 1; 2; 3; 4; 6; 8; 12; 24 (1)
2.2 1×24 ; 2×12 ; 3×8 ; 4×6 (1)
2.3 1; 2; 4; 8; 16; 32 (1)
2.4 1×32 ; 2×16 ; 4×8 (1)
2.5 1; 2; 5; 10; 25; 50 (1)
2.6 1×50 ; 2×25 ; 5×10 (1)

Afdeling B – Vermenigvuldiging met heelgetalle:

- 1.1 23×30 $F_{30} = \{1; 2; 3; 5; 6; 10; 15; 30\}$
Faktorpare = 1×30 ; 2×15 ; 3×10 ; 5×6
Kies jou eie een: 3×10
Getalsin: $23 \times 30 = 23 \times 3 \times 10$
 $= 69 \times 10$
 $= 690$ (2)

- 1.2 25×18 $F_{18} = \{1; 2; 3; 6; 9; 18\}$
Faktorpare = 1×18 ; 2×9 ; 3×6
Kies jou eie een: 3×6
Getalsin: $25 \times 18 = 25 \times 3 \times 6$
 $= 75 \times 6$
 $= (70 \times 6) + (5 \times 6)$

2.

$$\begin{aligned} &= 420 + 30 \\ &= \mathbf{450} \end{aligned} \tag{5}$$

1.3 43×16 $F_{16} = \{1; 2; \mathbf{4}; \mathbf{8}; \mathbf{16}\}$
Faktorpare = $1 \times 16; \mathbf{2 \times 8}; \mathbf{4 \times 4}$
Kies jou eie een: 2×8
Getalsin: $43 \times 16 = 43 \times 2 \times 8$
 $= 86 \times \mathbf{8}$
 $= (80 \times 8) + (6 \times 8)$
 $= 640 + \mathbf{48}$
 $= \mathbf{688}$ (8)

1.4 24×35 $F_{18} = \{1; 5; \mathbf{7}; \mathbf{35}\}$
Faktorpare = $1 \times 35; \mathbf{5 \times 7}$
Kies jou eie een: 5×7
Getalsin: $24 \times 35 = 24 \times 5 \times 7$
 $= 120 \times \mathbf{7}$
 $= (100 \times 7) + (\mathbf{20 \times 7})$
 $= 700 + 140$
 $= \mathbf{840}$ (7)

2.1 $37 \times 28 = 37 \times (20 + 8)$
 $= (37 \times 20) + (37 \times 8)$
 $= (37 \times 2 \times 10) + (30 \times 8) + (7 \times 8)$
 $= (74 \times 10) + 240 + 56$
 $= \mathbf{740} + 240 + 56$
 $= \mathbf{1\ 036}$ (2)

2.2 $29 \times 34 = 29 \times (30 + 4)$
 $= (29 \times 30) + (29 \times 4)$
 $= (29 \times 3 \times 10) + (20 \times 4) + (9 \times 4)$
 $= (87 \times 10) + \mathbf{80} + 36$
 $= \mathbf{870} + 80 + 36$
 $= \mathbf{986}$ (3)

2.3 $36 \times 31 = 36 \times (30 + 1)$
 $= (36 \times 30) + (36 \times 1)$
 $= (36 \times 3 \times 10) + (30 \times 1) + (6 \times 1)$
 $= (108 \times 10) + \mathbf{30} + \mathbf{6}$
 $= \mathbf{1080} + 30 + \mathbf{6}$
 $= \mathbf{1\ 116}$ (6)

2.4 $45 \times 38 = 45 \times (30 + 8)$
 $= (45 \times \mathbf{30}) + (45 \times 8)$
 $= (45 \times 3 \times 10) + (30 \times 8) + (15 \times 8)$

3.

$$\begin{aligned} &= (135 \times 10) + 240 + (10 \times 8) + (5 \times 8) \\ &= \mathbf{1350} + 240 + 80 + \mathbf{40} \\ &= \mathbf{1710} \end{aligned} \tag{4}$$

$$\begin{array}{ll} 3.1 \quad 18 \times 12 = 18 \times \mathbf{2} \times 10 & 3.2 \quad 14 \times 15 = 14 \times 3 \times \mathbf{5} \\ 3.3 \quad 34 \times 16 = 34 \times \mathbf{4} \times \mathbf{4} & 3.4 \quad 24 \times 27 = 24 \times 3 \times \mathbf{3} \times \mathbf{3} \\ 3.5 \quad 22 \times 18 = 22 \times \mathbf{2} \times \mathbf{3} \times 3 & \end{array} \tag{8}$$

$$\begin{aligned} 4.1 \quad 213 \times 13 \quad \mathbf{213 \times 13} &= \mathbf{213 \times (10 + 3)} \\ &= \mathbf{(213 \times 10) + (210 \times 3)} \\ &= \mathbf{(213 \times 10) + (200 \times 3) + (10 \times 3) + (3 \times 3)} \\ &= \mathbf{2130 + 600 + 30 + 9} \\ &= \mathbf{2769} \end{aligned} \tag{5}$$

$$\begin{aligned} 4.2 \quad 143 \times 28 \quad \mathbf{143 \times 28} &= \mathbf{143 \times (20 + 8)} \\ &= \mathbf{(143 \times 20) + (143 \times 8)} \\ &= \mathbf{(143 \times 10 \times 2) + (100 \times 8) + (40 \times 8) + (3 \times 8)} \\ &= \mathbf{2860 + 800 + 320 + 24} \\ &= \mathbf{4004} \end{aligned} \tag{5}$$

$$\begin{aligned} 4.3 \quad 238 \times 43 \quad \mathbf{238 \times 43} &= \mathbf{238 \times (40 + 3)} \\ &= \mathbf{(238 \times 40) + (238 \times 3)} \\ &= \mathbf{(238 \times 10 \times 4) + (200 \times 3) + (30 \times 3) + (8 \times 3)} \\ &= \mathbf{9520 + 600 + 90 + 24} \\ &= \mathbf{10234} \end{aligned} \tag{5}$$

$$5.1 \quad 18 \times 25 = (18 \times \mathbf{20}) + (18 \times 5) \tag{1}$$

$$5.2 \quad 34 \times 46 = (34 \times 40) + (34 \times 6) \tag{1}$$

$$5.3 \quad \mathbf{16} \times 19 = (16 \times 10) + (16 \times 9) \tag{2}$$

$$5.4 \quad 234 \times 48 = (234 \times 40) + (234 \times 8) \tag{1}$$

$$5.5 \quad 345 \times 64 = (\underline{\quad\quad} \times 60) + (345 \times 4) \tag{2}$$

$$\begin{aligned} 6.1 \quad \square \div 134 = 23 \quad \mathbf{134 \times 23} &= \mathbf{134 \times (20 + 3)} \\ &= \mathbf{(134 \times 20) + (134 \times 3)} \\ &= \mathbf{(134 \times 10 \times 2) + (100 \times 3) + (30 \times 3) + (4 \times 3)} \\ &= \mathbf{2680 + 300 + 90 + 12} \\ &= \mathbf{3082} \end{aligned} \tag{5}$$

$$\begin{aligned} 6.2 \quad \square \div 234 = 38 \quad \mathbf{234 \times 38} &= \mathbf{234 \times (30 + 8)} \\ &= \mathbf{(234 \times 30) + (234 \times 8)} \\ &= \mathbf{(234 \times 10 \times 3) + (200 \times 8) + (30 \times 8) + (4 \times 8)} \\ &= \mathbf{7020 + 1600 + 240 + 32} \\ &= \mathbf{8892} \end{aligned} \tag{5}$$

$$\begin{aligned} 6.3 \quad \square \div 333 = 45 \quad \mathbf{333 \times 45} &= \mathbf{333 \times (40 + 5)} \\ &= \mathbf{(333 \times 40) + (333 \times 5)} \\ &= \mathbf{(333 \times 10 \times 4) + (300 \times 5) + (30 \times 5) + (3 \times 5)} \\ &= \mathbf{13320 + 1500 + 150 + 15} \\ &= \mathbf{14985} \end{aligned} \tag{5}$$

4.

7.1 **Getalsin:** $24 \times 9 = \square$
Bewerkings: $24 \times 9 = (20 \times 9) + (4 \times 9)$
 $= 180 + 36$
 $= 216$
Antwoord: 216 passasiers kan vervoer word (6)

7.2 **Getalsin:** $45 \times 23 = \square$
Bewerkings: $45 \times 23 = (45 \times 20) + (45 \times 3)$
 $= (45 \times 10 \times 2) + (40 \times 3) + (5 \times 3)$
 $= 900 + 120 + 15$
 $= 1\ 035$
Antwoord: Kratte weeg 1 035 kg (6)

7.3 **Getalsin:** $R26 \times 54 = \square$
Bewerkings: $26 \times 54 = (26 \times 50) + (26 \times 4)$
 $= (26 \times 10 \times 5) + (20 \times 4) + (6 \times 4)$
 $= 1\ 300 + 80 + 24$
 $= 1\ 404$
Antwoord: R1 404 (6)

7.4 **Getalsin:** $325 \times 12 = \square$
Bewerkings: $325 \times 12 = (325 \times 10) + (325 \times 2)$
 $= (325 \times 10) + (300 \times 2) + (20 \times 2) + (5 \times 2)$
 $= 3\ 250 + 600 + 40 + 10$
Antwoord: R3 900 is gemaak (6)

Afdeling C – Deling met heelgetalle:

1.1 $145 \div 3$

Vermenigvuldig	Trek af om die verskil te bepaal
$40 \times 3 = 120$	$145 - 120 = 25$
$8 \times 3 = 24$	$25 - 24 = 1$

Leidraadbord
$10 \times 3 = 30$
$20 \times 3 = 60$
$40 \times 3 = 120$
$8 \times 3 = 24$

ANTWOORD: $145 \div 3 = 40 + 8 \text{ res } 1 = 48 \text{ res } 1$ (4)

1.2 $289 \div 7$

Leidraadbord
$20 \times 7 = 140$
$40 \times 7 = 280$
$1 \times 7 = 7$

Vermenigvuldig	Trek af om die verskil te bepaal
$40 \times 7 = 280$	$289 - 280 = 9$
$1 \times 7 = 7$	$9 - 7 = 2$

ANTWOORD: $289 \div 7 = 40 + 1 \text{ res } 2 = 41 \text{ res } 2$ (4)

5.

1.3 $529 \div 8$

Leidraadbord
$10 \times 8 = 80$
$50 \times 8 = 400$
$5 \times 8 = 40$

Vermenigvuldig	Trek af om die verskil te bepaal
$50 \times 8 = 400$	$529 - 400 = 129$
$10 \times 8 = 80$	$129 - 80 = 49$
$5 \times 8 = 40$	$49 - 40 = 9$
$1 \times 8 = 8$	$9 - 8 = 1$

ANTWOORD: $529 \div 8 = 50 + 10 + 5 + 1$ res $1 = 66$ res 1 (4)

2.1 $28 \div 7 = 4$

2.2 $24 \div 8 = 3$

2.3 $35 \div 7 = 5$

2.4 $44 \div 11 = 4$

2.5 $54 \div 6 = 9$

2.6 $64 \div 8 = 8$

2.7 $81 \div 9 = 9$

2.8 $96 \div 4 = 24$ (8)

3. Deling met 'n tweesyfergetal:

3.1 $290 \div 15$

Leidraadbord
$10 \times 15 = 150$
$5 \times 15 = 75$
$4 \times 15 = 60$

Vermenigvuldig	Trek af om die verskil te bepaal
$15 \times 15 = 225$	$290 - 225 = 65$
$4 \times 15 = 60$	$65 - 60 = 5$

ANTWOORD: $290 \div 15 = 15 + 4$ res $5 = 19$ res 5 (5)

3.2 $324 \div 14$

Leidraadbord
$10 \times 14 = 140$
$20 \times 14 = 280$
$2 \times 14 = 28$
$1 \times 14 = 14$

Vermenigvuldig	Trek af om die verskil te bepaal
$20 \times 14 = 280$	$324 - 280 = 44$
$2 \times 14 = 28$	$44 - 28 = 16$
$1 \times 14 = 14$	$16 - 14 = 2$

ANTWOORD: $324 \div 14 = 20 + 2 + 1$ res $2 = 23$ res 2 (5)

3.3 $468 \div 24$

Leidraadbord
$10 \times 24 = 240$
$5 \times 24 = 120$

Vermenigvuldig	Trek af om die verskil te bepaal
$15 \times 24 = 360$	$468 - 360 = 108$
$5 \times 24 = 120$	$108 - 120 = -12$
$2 \times 24 = 48$	$48 - 48 = 0$

ANTWOORD: $468 \div 24 = 15 + 5 + 2 = 22$ (5)

6.

3.4 $765 \div 36$

Leidraadbord

$10 \times 36 = 360$

$20 \times 36 = 720$

$1 \times 36 = 36$

Vermenigvuldig	Trek af om die verskil te bepaal
$20 \times 36 = 720$	$765 - 720 = 45$
$1 \times 36 = 36$	$45 - 36 = 9$

ANTWOORD: $765 \div 36 = 20 + 1 \text{ res } 9$ (5)

4.1 $20 \times 4 = 80$ en $80 \div 20 = 4$ (2)

4.2 $130 \div 10 = 13$ en $13 \times 10 = 130$ (2)

4.3 $80 \times 3 = 240$ en $240 \div 3 = 80$ (3)

4.4 $550 \div 5 = 110$ en $5 \times 110 = 550$ (3)

4.5 $20 \times 40 = 800$ en $800 \div 20 = 40$ (3)

4.6 $560 \div 7 = 80$ en $80 \times 7 = 560$ (3)

5.1 Oop getalsin: $600 \div 24 = \square$

Leidraadbord

$10 \times 24 = 240$

$20 \times 24 = 480$

$5 \times 24 = 120$

Vermenigvuldig	Trek af om die verskil te bepaal
$20 \times 24 = 480$	$600 - 480 = 120$
$5 \times 24 = 120$	$120 - 120 = 0$

ANTWOORD: $600 \div 24 = 20 + 5 = 25$ 25 Busse is nodig (6)

5.2 Oop getalsin: $672 \div 7 = \square$

Leidraadbord

$10 \times 7 = 70$

$20 \times 7 = 140$

$80 \times 7 = 560$

$6 \times 7 = 42$

Vermenigvuldig	Trek af om die verskil te bepaal
$80 \times 7 = 560$	$672 - 560 = 112$
$10 \times 7 = 70$	$112 - 70 = 42$
$6 \times 7 = 42$	$42 - 42 = 0$

ANTWOORD: $672 \div 7 = 80 + 10 + 6 = 96$ Gemiddelde spoed is 96 km/h (6)

5.3 Oop getalsin: $2\ 805 \div 33 = \square$

Leidraadbord

$10 \times 33 = 330$

$40 \times 33 = 1320$

$80 \times 33 = 2640$

$5 \times 33 = 165$

Vermenigvuldig	Trek af om die verskil te bepaal
$80 \times 33 = 2\ 640$	$2\ 805 - 2\ 640 = 165$
$5 \times 33 = 165$	$165 - 165 = 0$

ANTWOORD: $2\ 805 \div 33 = 80 + 5 = 85$ Elke leerder betaal R85 (6)

7.

5.4 Oop getalsin:

$$(216 \div 8) \times 24 = \square$$

Leidraadbord

$$10 \times 8 = 80$$

$$20 \times 8 = 160$$

$$7 \times 8 = 56$$

Vermenigvuldig	Trek af om die verskil te bepaal
$20 \times 8 = 160$	$216 - 160 = 56$
$7 \times 8 = 56$	$56 - 56 = 0$

ANTWOORD: $216 \div 8 = 56$ Een hokkiebal kos R56 (6)

Oop getalsin: $56 \times 24 = \square$

$$\begin{aligned} \text{Bewerkings: } 56 \times 24 &= (56 \times 20) + (56 \times 4) \\ &= (56 \times 10 \times 2) + (50 \times 4) + (6 \times 4) \\ &= 1\,120 + 200 + 24 \\ &= 1\,344 \end{aligned}$$

ANTWOORD: 24 hokkieballe kos R1 344 (4)