

5e

Corréction de la fiche .6

Exercice 1 :

$$3h36\text{ min} = 3,6\text{ h}$$

$$4h12\text{ min} = 4,2\text{ h}$$

$$30\text{ min} = 0,5\text{ h}$$

$$15\text{ min} = 0,25\text{ h}$$

$$10h54\text{ min} = 10,9\text{ h}$$

$$1h48\text{ min} = 1,8\text{ h}$$

$$36\text{ min} = \frac{36}{60}\text{ h} = \frac{6 \times 6}{6 \times 10}\text{ h} = \frac{6}{10}\text{ h} = 0,6\text{ h}$$

$$12\text{ min} = \frac{12}{60}\text{ h} = \frac{6 \times 2}{6 \times 10}\text{ h} = \frac{2}{10}\text{ h} = 0,2\text{ h}$$

$$30\text{ min} = \frac{30}{60}\text{ h} = \frac{1}{2}\text{ h} = 0,5\text{ h}$$

$$15\text{ min} = \frac{15}{60}\text{ h} = \frac{15 \times 1}{15 \times 4}\text{ h} = \frac{1}{4}\text{ h} = 0,25\text{ h}$$

$$54\text{ min} = \frac{54}{60}\text{ h} = \frac{6 \times 9}{6 \times 10}\text{ h} = \frac{9}{10}\text{ h} = 0,9\text{ h}$$

$$48\text{ min} = \frac{48}{60}\text{ h} = \frac{6 \times 8}{6 \times 10}\text{ h} = \frac{8}{10}\text{ h} = 0,8\text{ h}$$

Exercice 2 :

$$2h6\text{ min} = 2,1\text{ h}$$

$$1h45\text{ min} = 1,75\text{ h}$$

$$26\text{ min} = 0,4\text{ h}$$

$$5h18\text{ min} = 5,3\text{ h}$$

$$6h42\text{ min} = 6,7\text{ h}$$

$$1h33\text{ min} = 1,55\text{ h}$$

$$6\text{ min} = \frac{6}{60}\text{ h} = \frac{1}{10}\text{ h} = 0,1\text{ h}$$

$$45\text{ min} = \frac{45}{60}\text{ h} = \frac{15 \times 3}{15 \times 4}\text{ h} = \frac{3}{4}\text{ h} = 0,75\text{ h}$$

$$26\text{ min} = \frac{26}{60}\text{ h} = \frac{6 \times 4}{6 \times 10}\text{ h} = \frac{4}{10}\text{ h} = 0,4\text{ h}$$

$$18\text{ min} = \frac{18}{60}\text{ h} = \frac{6 \times 3}{6 \times 10}\text{ h} = \frac{3}{10}\text{ h} = 0,3\text{ h}$$

$$42\text{ min} = \frac{42}{60}\text{ h} = \frac{6 \times 7}{6 \times 10}\text{ h} = \frac{7}{10}\text{ h} = 0,7\text{ h}$$

$$33\text{ min} = \frac{33}{60}\text{ h} = \frac{3 \times 11}{3 \times 20}\text{ h} = \frac{11}{20}\text{ h} = 0,55\text{ h}$$

Exercice 3 :

$$2,5\text{ h} = 2h30\text{ min}$$

$$0,5 \times 60 = 5 \times 6 = 30$$

$$4,7\text{ h} = 4h42\text{ min}$$

$$0,7 \times 60 = 7 \times 6 = 42$$

$$1,3\text{ h} = 1h18\text{ min}$$

$$0,3 \times 60 = 3 \times 6 = 18$$

$$0,6\text{ h} = 36\text{ min}$$

$$0,6 \times 60 = 6 \times 6 = 36$$

$$1,34\text{ h} = 1h20\text{ min}24\text{ s}$$

$$0,34 \times 60 = 3,4 \times 6 = 20,4 \text{ et } 0,4 \times 60 = 24$$

$$8,25\text{ h} = 8h15\text{ min}$$

$$0,25 \times 60 = 2,5 \times 6 = 15$$

Exercice 4:

$$0,75 \text{ h} = 45 \text{ min}$$

$$0,75 \times 60 = 7,5 \times 6 = 45$$

$$9,1 \text{ h} = 9 \text{ h } 6 \text{ min}$$

$$0,1 \times 60 = 1 \times 6 = 6$$

$$5,6 \text{ h} = 5 \text{ h } 24 \text{ min}$$

$$0,6 \times 60 = 6 \times 6 = 24$$

$$6,9 \text{ h} = 6 \text{ h } 54 \text{ min}$$

$$0,9 \times 60 = 9 \times 6 = 54$$

$$8,2 \text{ h} = 8 \text{ h } 12 \text{ min}$$

$$0,2 \times 60 = 2 \times 6 = 12$$

$$7,8 \text{ h} = 7 \text{ h } 48 \text{ min}$$

$$0,8 \times 60 = 8 \times 6 = 48$$

Exercice 5:

1. $9 \text{ h } 23 \text{ min} \rightarrow 12 \text{ h } 41 \text{ min}$

$3 \text{ h } 18 \text{ min}$ Le train a roulé $3 \text{ h } 18 \text{ min}$.

2. $16 \text{ h } 08 \text{ min} \rightarrow 21 \text{ h } 56 \text{ min}$

$5 \text{ h } 48 \text{ min}$ Le train a roulé $5 \text{ h } 48 \text{ min}$.

3. $11 \text{ h } 42 \text{ min} \rightarrow 15 \text{ h } 25 \text{ min}$

18 min \downarrow 12 h \uparrow $3 \text{ h } 25 \text{ min}$

$18 \text{ min} + 3 \text{ h } 25 \text{ min} = 3 \text{ h } 43 \text{ min}$ Le train a roulé $3 \text{ h } 43 \text{ min}$.

Exercice 6:

1. $19 \text{ h } 45 \text{ min} \rightarrow 23 \text{ h } 12 \text{ min}$

15 min \downarrow 20 h \uparrow $3 \text{ h } 12 \text{ min}$

$15 \text{ min} + 3 \text{ h } 12 \text{ min} = 3 \text{ h } 27 \text{ min}$ Le train a roulé $3 \text{ h } 27 \text{ min}$.

2. $23 \text{ h } 37 \text{ min} \rightarrow 2 \text{ h } 15 \text{ min}$

23 min \downarrow 00 h \uparrow $2 \text{ h } 15 \text{ min}$

$23 \text{ min} + 2 \text{ h } 15 \text{ min} = 2 \text{ h } 38 \text{ min}$ Le train a roulé $2 \text{ h } 38 \text{ min}$.

Exercice 7:

kg	hg	dag	g	dg	cg	mg

Exercice 8:

$$15 \text{ mg} = 0,000\,015 \text{ kg}$$

$$5 \text{ dag} = 500 \text{ dg}$$

$$5,01 \text{ g} = 0,0501 \text{ kg}$$

$$2,3 \text{ kg} = 2300 \text{ g}$$

$$12,4 \text{ dg} = 1,24 \text{ g}$$

$$30,1 \text{ g} = 30100 \text{ mg}$$

Exercice 9:

$$3,2 \text{ t} = 3200 \text{ kg}$$

$$0,7 \text{ hg} = 70000 \text{ mg}$$

$$2,7 \text{ q} = 270000 \text{ g}$$

$$124 \mu\text{g} = 0,000\,124 \text{ g}$$

$$5 \text{ mg} = 0,005 \text{ g}$$

$$7 \text{ g} = 0,007 \text{ kg}$$

Exercice 10:

km	hm	dam	m	dm	cm	mm

Exercice 11:

$$1. \quad 45,6 \text{ m} = 45600 \text{ mm} = 4,56 \text{ dam}$$

$$2. \quad 85,55 \text{ km} = 8555,5 \text{ hm} = 85550 \text{ m}$$

$$3. \quad 12,5 \text{ cm} = 125 \text{ mm} = 0,125 \text{ m}$$

$$4. \quad 0,789 \text{ km} = 789 \text{ m} = 78900 \text{ cm}$$

$$5. \quad 32,1 \text{ km} = 3210000 \text{ cm}$$

$$6. \quad 762000 \text{ cm} = 7,62 \text{ km}$$

Exercice 12:

km ²	hm ²	dam ²	m ²	dm ²	cm ²	mm ²

Exercice 13:

$$1. \ 52 \text{ cm}^2 = 5200 \text{ mm}^2$$

$$3. \ 123 \text{ mm}^2 = 0,0123 \text{ dm}^2$$

$$5. \ 53 \text{ m}^2 = 0,0053 \text{ hm}^2$$

$$2. \ 2 \text{ dam}^2 = 200 \text{ m}^2$$

$$4. \ 1203 \text{ cm}^2 = 0,1203 \text{ m}^2$$

$$6. \ 74 \text{ dm}^2 = 740000 \text{ mm}^2$$

Exercice 14:

m^3	dm^3	cm^3	mm^3
L	dl	cl	ml

Exercice 15:

$$1. \ 230 \text{ dm}^3 = 0,23 \text{ m}^3$$

$$3. \ 0,9 \text{ km}^3 = 900000 \text{ dm}^3$$

$$5. \ 350 \text{ L} = 0,35 \text{ m}^3$$

$$7. \ 3,601 \text{ dm}^3 = 360,1 \text{ cl}$$

$$2. \ 0,00075 \text{ dm}^3 = 750 \text{ mm}^3$$

$$4. \ 0,1 \text{ cm}^3 = 100 \text{ mm}^3$$

$$6. \ 50 \text{ mm}^3 = 0,00005 \text{ L}$$

Exercice 16:

$$1. \ 51 \text{ cm} = 0,00051 \text{ m}$$

$$3. \ 574,3 \text{ dm}^2 = 5,743 \text{ m}^2$$

$$5. \ 293,7 \text{ km} = 2937000 \text{ dm}$$

$$7. \ 71,3 \text{ mm}^2 = 0,0000713 \text{ m}^2$$

$$2. \ 2450 \text{ cL} = 24,5 \text{ dm}^3$$

$$4. \ 0,4 \text{ dm}^3 = 400000 \text{ mm}^3$$

$$6. \ 0,92 \text{ L} = 920 \text{ mL}$$