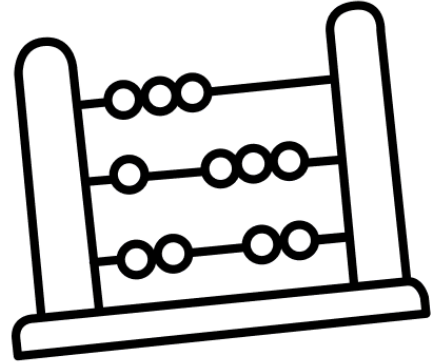


Naqshadeeye gudaha (Interior designer)

Maths

Unit Xisaab goobta shaqada (Xisaab in the workplace)



Natiijo

Waxaan fahmi karaa sida xisaabta loogu isticmaalo naqshadaynta gudaha (interior design).

Bedka (area) waa cabbirka dusha oo tilmaamaya tirada halbeegyada labajibbaaran ee loo baahan yahay si buuxda u daboosho dushaas.

Qaabka casharka

Naqshadeeye gudaha (Interior designer)



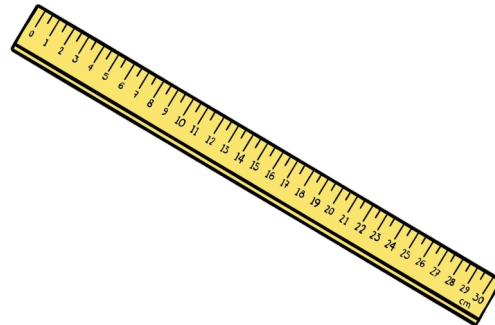
Cabbiraadaha naqshadaynta gudaha (Measurements in interior design)



Maaliyadda naqshadaynta gudaha (Finance in interior design)

Waa maxay qaybaha xisaabta ee aad u malaynayso in naqshadeeye guduhu isticmaalo?

- Bed (Area)
- Isku dhufasho iyo qaybin (Multiplication and division)
- Beddelka (Conversions)
- Saami (Proportion)
- Lacag (Money)
- Cabbiraad (Measurements)
- Joometri (Geometry)
- Miisaan (Scale)



Inta lagu jiro darsigan waxaan eegi doonnaa qaar ka mid ah kuwan.

Mid ka mid ah waxyaabaha ugu muhiimsan ee naqshadaynta gudaha waa cabbiraad sax ah.

Maxaad u malaynaysaa inay taasi run tahay?

Haddii cabbirada (measurements) aysan sax ahayn, alaabta guriga (furniture) laga yaabaa inaysan ku habboonayn meesha aad u qorshaynaysay.

Waxaa laga yaabaa inaadan iibsan karin daboolida dhulka ama gidaarka (floor or wall coverings) oo ku filan.

Muuqaalka (visual appearance) qolka laga yaabaa inuusan lahaan saamaynta (effect) la doonayay.

Beddelka (conversion) u dhexeeya unugyada (units) cabbirka oo kala duwan ayaa sidoo kale muhiim ah.

Awoodda beddelka (convert) u dhexeeya unugyada (units) metric iyo imperial ee dhererka (length) ama bedka (area) waa caawinaad, laakiin sidoo kale beddelka iyadoo la isticmaalayo miisaan (scale).

Nashqadeeyayaasha gudaha (interior designers) waxay inta badan isticmaalaan sawirada miisaanka (scale drawings) si ay u tixgeliyaan meelaynta (positioning) alaabta guriga (furniture).

Cabbirrada (Measurements) nashqada gudaha (interior design)

Hoos waxaa ku yaal sawirada (sketches) gidaarada (walls) qolka.

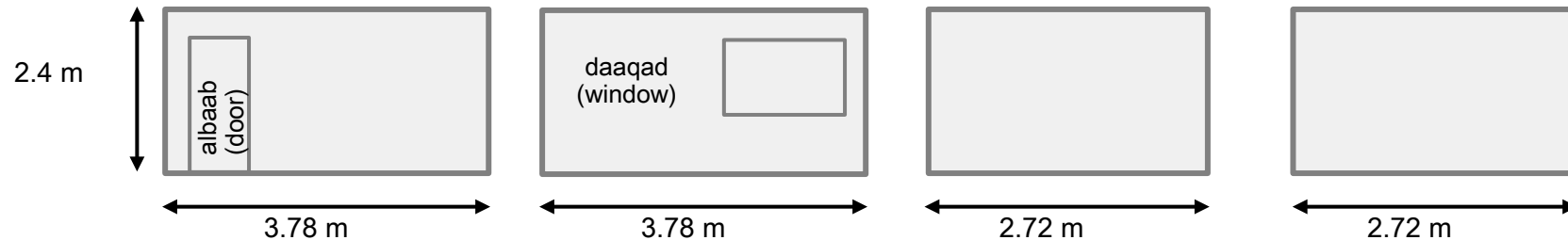
Dhalo (tin) rinji (paint) ah oo 2.5 litir ah ayaa daboosha 25 m².

Gidaarada (walls) waxay u baahan doonaan 2 lakab (coats) oo rinji (paint) ah.

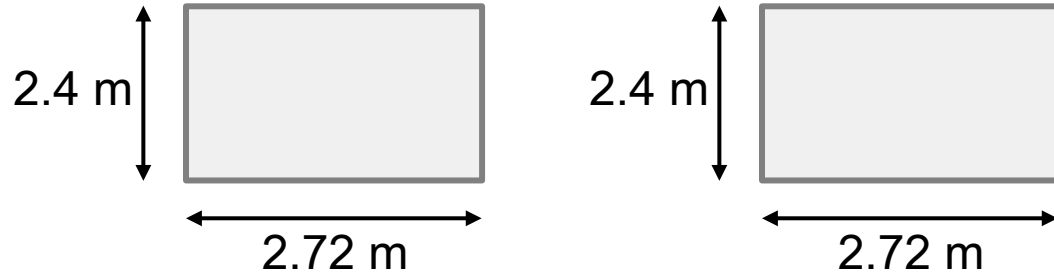
Cabbirrada (dimensions) albaabka (door) waa 1.98 m iyo 76 cm.

Cabbirrada (dimensions) daaqadda (window) waa 1.5 m iyo 1.2 m.

Imisa dhalo (tins) oo rinji (paint) ah ayaa loo baahan yahay si loo rinjiyeeyo (paint) qolka?



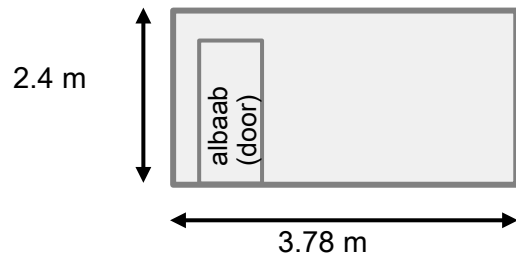
Cabbirrada (Measurements) nashqada gudaha (interior design)



$$\begin{aligned}\text{Bedka (Area) gidaarka (wall)} &= 2.72 \times 2.4 \\ &= 6.528 \text{ m}^2\end{aligned}$$

$$\begin{aligned}\text{Wadarta bedka (Total area) 2 gidaar (walls)} &= 2 \times 6.528 \\ &= 13.056 \text{ m}^2\end{aligned}$$

Cabbirrada (dimensions) albaabka (door) waa 1.98 m iyo 76 cm.



Bedka gidaarka (oo ay ku jirto albaabka) = 3.78×2.4

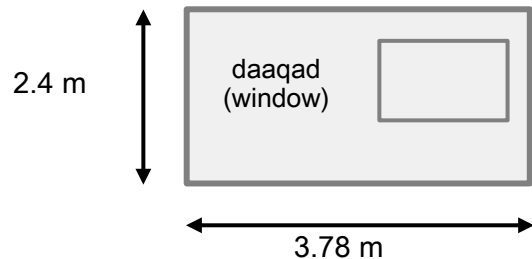
$$= 9.072 \text{ m}^2$$

Bedka albaabka = 1.98×0.76

$$= 1.5048 \text{ m}^2$$

Bedka loo baahan yahay in la rinjiyeeyo = $9.072 - 1.5048 = 7.5672 \text{ m}^2$

Cabbirrada daaqadda waa 1.5 m iyo 1.2 m.



$$\begin{aligned}\text{Bedka gidaarka (oo ay ku jirto daaqadda)} &= 3.78 \times 2.4 \\ &= 9.072 \text{ m}^2\end{aligned}$$

$$\begin{aligned}\text{Bedka daaqadda} &= 1.5 \times 1.2 \\ &= 1.8 \text{ m}^2\end{aligned}$$

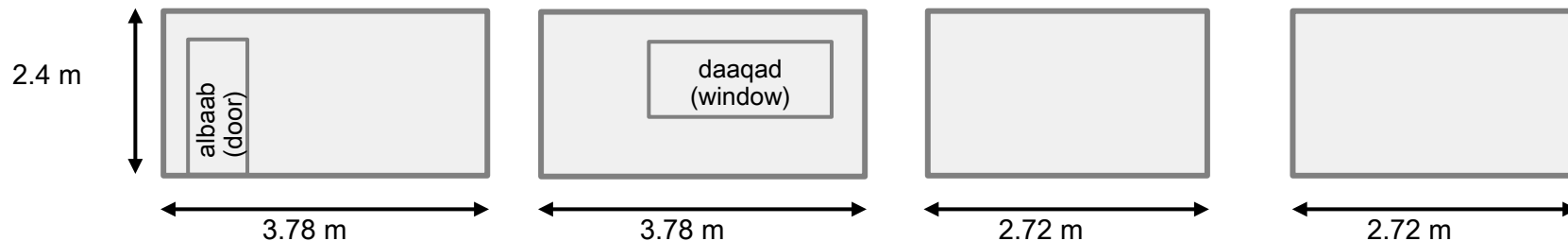
$$\text{Bedka loo baahan yahay in la rinjiyeeyo} = 9.072 - 1.8 = 7.272 \text{ m}^2$$

Hoos waxaa ku yaal sawirro gidaarada qolka.

Qasacad 2.5 litir ah oo rinji ah waxay daboolaysaa 25 m².

Gidaarada waxay u baahan doonaan 2 lakab oo rinji ah.

Imisa qasacadood oo rinji ah ayaa loo baahan yahay si loo rinjiyeeyo qolka?



Wadarta bedka ee u baahan rinji = $2(7.5672 + 7.272 + 13.056)$

Wadarta bedka ee u baahan rinji = 55.7904 m²

Tirada qasacadaha loo baahan yahay = $55.7904 \div 25$

= 2.231...

Saddex qasacadood ayaa loo baahan yahay si loo rinjiyeeyo qolka.

Cabbirrada naqshadaynta gudaha



Naqshadeeye gudaha ayaa raba inuu rinjiyeeyo saqafka guriga.

Dahaarku waa 12 m² litirkiiba, weelashuna waa 10 litir.

Saqaf kasta wuxuu u baahan yahay 2 lakab (coats) oo rinji ah.

Wadarta bedka (area) saqafka la rinjinayo waa 88 m².

Imisa weel oo rinji ah ayaa loo baahan yahay in la iibsado?

Dahaarka (coverage) weel kasta = $10 \times 12 = 120 \text{ m}^2$

Bedka (area) u baahan rinji = $2 \times 88 = 176 \text{ m}^2$

Tirada weelasha loo baahan yahay = $176 \div 120 = 1.466\dots$

= 2 weel

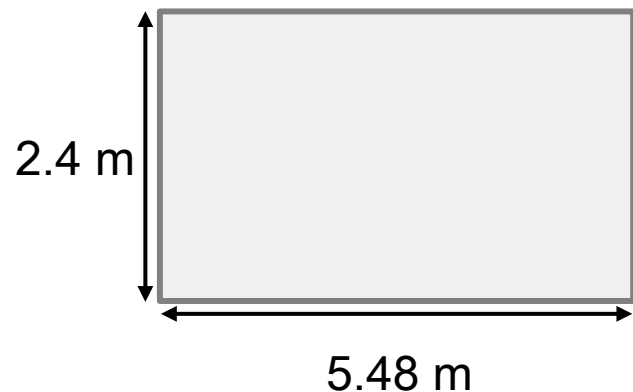
Cabbiraadaha (Measurements) naqshadda gudaha (interior design)

Naqshadeeye guduhu (interior designer) wuxuu doonayaa inuu gidaar ku dhejiyo warqad gidaar (wallpaper).

Hoos waxaa ku yaal sawir (sketch) gidaarka.

Ballaca (width) duubka warqadda gidaarku waa 53 cm, dhererka (length) duubkuna waa 10.05 m.

Imisa duub oo warqad gidaar ah ayaa loo baahan yahay si gidaarkan loo dhejiyo?



Bedka (area) gidaarka = 5.48×2.4

$$= 13.152 \text{ m}^2$$

Bedka (area) uu daboolo 1 duub (roll) oo warqad gidaar ah

$$= 0.53 \times 10.05$$

$$= 5.3265 \text{ m}^2$$

Cabbiraadaha (Measurements) naqshadda gudaha (interior design)

Naqshadeeye guduha (interior designer) wuxuu doonayaa inuu gidaar ku dhejiyo warqad gidaar (wallpaper).

Hoos waxaa ku yaal sawir (sketch) gidaarka.

Ballaca (width) duubka warqadda gidaarku waa 53 cm, dhererka (length) duubkuna waa 10.05 m.

Imisa duub oo warqad gidaar ah ayaa loo baahan yahay si gidaarkan loo dhejiyo?

Bedka (area) gidaarka = 13.152 m^2

Bedka (area) uu daboolo 1 duub = 5.3265 m^2

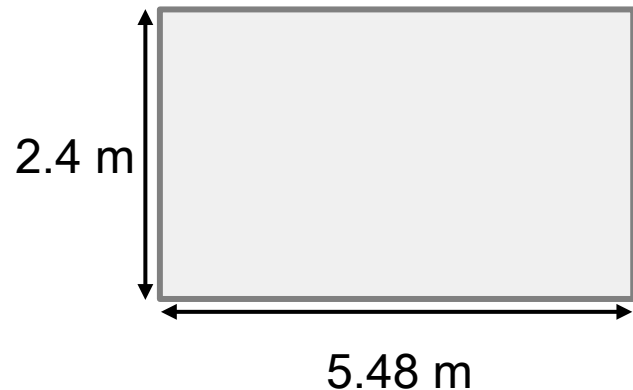
Tirada roogagga loo baahan yahay

Sababta ah waxaa yeelan doonta isku xirnaan dhexda. Xariiq kastaa wuxuu u baahan yahay 5.3265 m^2 ka dibna ka baxsado 2.4 m .

$\frac{13.152}{5.3265} = 2.469$

= 3 roogag

Waa maxay sababta aanay tani ahayn hab ku habboon oo lagu xisaabiyo tirada roogagga loo baahan yahay?



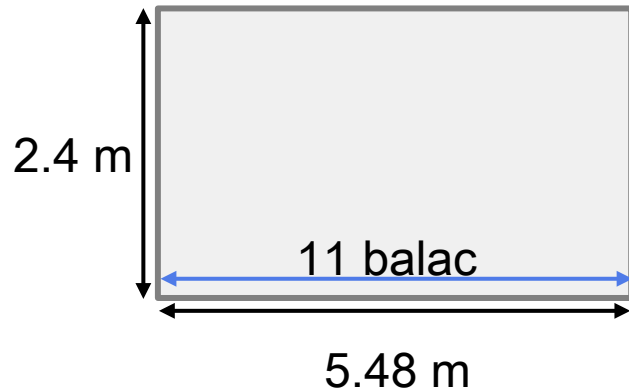
Cabbiraadaha naqshadaynta gudaha

Naqshadeeye gudaha ayaa raba inuu derbi ku dhejiyo roog.

Hoos waxaa ku yaal sawir qorshaysan oo derbiga ah.

Balaca roogga waa 53 cm dhererkiisuna waa 10.05 m.

Immisa roog oo roogag ah ayaa loo baahan yahay si loogu dhejiyo derbigan?



Immisa balac oo roogag ah ayaa loo baahan yahay?

$$5.48 \div 0.53 = 10.33...$$

11 balac oo roogag ah ayaa loo baahan yahay.

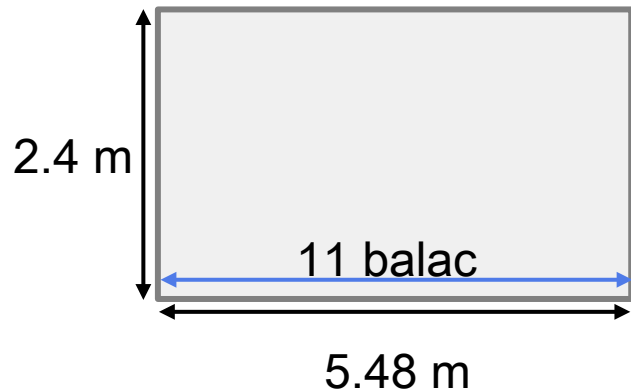
Cabbiraadaha naqshadaynta gudaha

Naqshadeeye gudaha ayaa raba inuu derbi ku dhejiyo roog.

Hoos waxaa ku yaal sawir qorshaysan oo derbiga ah.

Balaca roogga waa 53 cm dhererkiisuna waa 10.05 m.

Immisa roog oo roogag ah ayaa loo baahan yahay si loogu dhejiyo derbigan?



Immisa dherer oo roogag ah ayaad ka heli kartaa roog kasta?

$$10.05 \div 2.4 = 4.1875$$

4 dherer oo roogag ah ayaa laga helaa roog kasta.

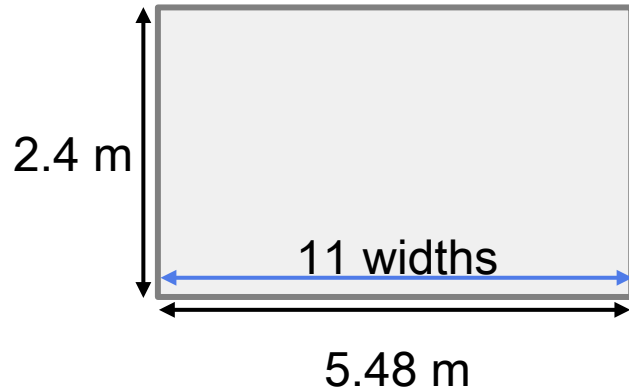
Cabbiraadaha naqshadaynta gudaha

An interior designer wants to wallpaper a wall.

Hoos waxaa ku yaal sawir gacan oo derbiga ah.

Ballaca duubka warqadda derbiga waa 53 cm, dhererkiisuna waa 10.05 m.

Imisa duub oo warqad derbi ah ayaa loo baahan yahay si derbiga loo dhejiyo?



Immisa roog ayaa loo baahan yahay?

$$11 \div 4 = 2.75$$

3 duub oo warqad derbi ah ayaa loo baahan yahay.

Isla tiradii hore, laakiin markan waxaan ognahay inaan hufan nahay oo si sax ah u dhigayna.

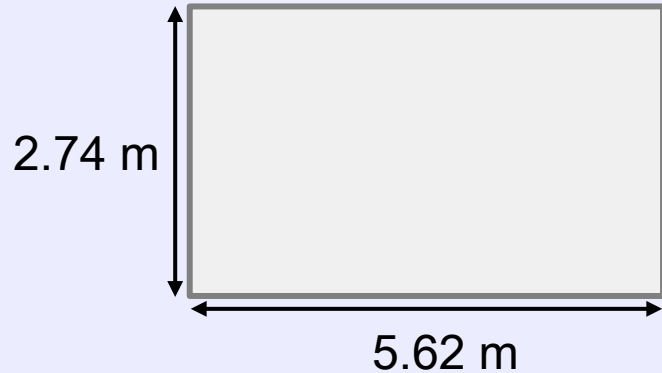
Measurements in interior design

An interior designer wants to wallpaper a wall.

Hoos waxaa ku yaal sawir gacan oo derbiga ah.

Ballaca duubka warqadda derbiga waa 50 cm, dhererkiisuna waa 10 m.

Imisa duub oo warqad derbi ah ayaa loo baahan yahay si derbiga loo dhejiyo?



$$5.62 \div 0.5 = 11.24$$

12 widths needed

$$10 \div 2.74 = 3.649...$$

3 dherer oo ka mid ah duub kasta

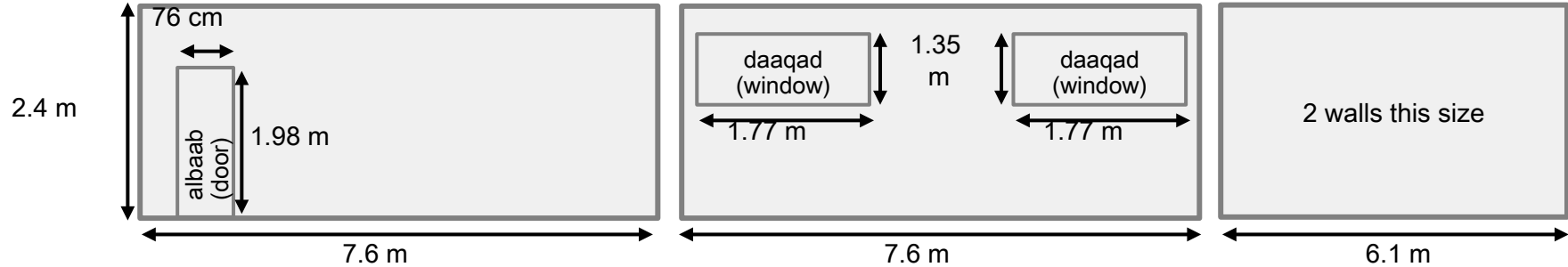
$$12 \div 3 = 4 \text{ rolls}$$

1) Below are sketches of the walls in a room. (Not to scale)

A 2.5 litre tin of paint covers 25 m^2 .

Derbiyada waxay u baahan doonaan 2 lakab oo rinji ah.

Imisa qasacadood oo rinji ah ayaa loo baahan yahay si qolka loo rinjiyeeyo?

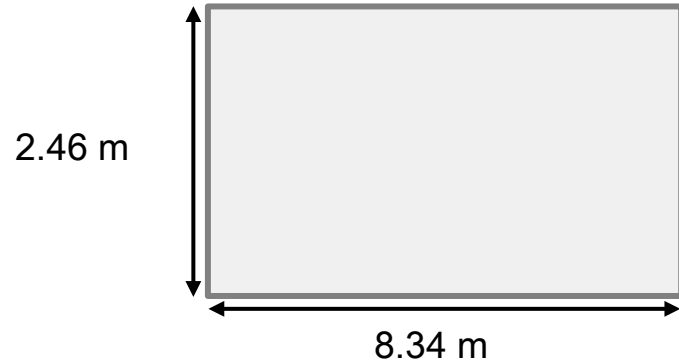


2) Naqshadeeye gudaha wuxuu rabaa inuu derbi ku dhejiyo warqad (wallpaper).

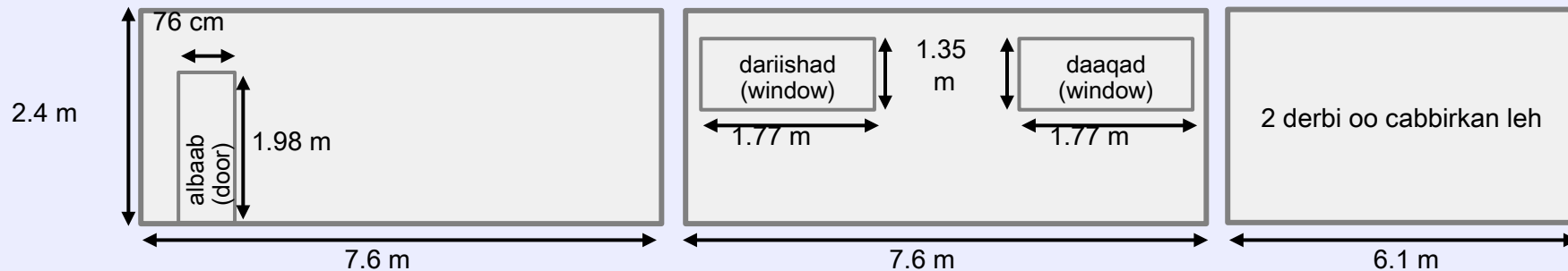
Hoos waxaa ku yaal sawirka derbiga.

Ballaca warqadda (wallpaper) waa 52 cm, dhererkeeduna waa 10.5 m.

Imisa duub oo warqad (wallpaper) ayaa loo baahan yahay si derbiga loo dhejiyo?



1) Hoos waxaa ku yaal sawirada derbiyada qolka. (Ma aha cabbir sax ah)
Dhalo 2.5 litir oo rinji ah waxay daboolaysaa 25 m².
Derbiyada waxay u baahan yihiin 2 lakab oo rinji ah.
Imisa dhalo oo rinji ah ayaa loo baahan yahay si qolka loo rinjiyeeyo?



Wadarta bedka derbiyada ee u baahan rinji = $65.76 - 6.2838 = 59.4762$ m²

Wadarta bedka ee u baahan rinji = 118.9524 m

Tirada dhalooyinka loo baahan yahay = $118.9524 \div 25$
= 4.758...

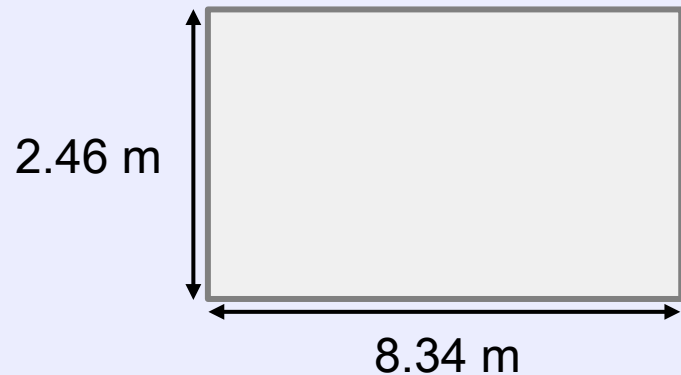
= 5 dhalo

2) An interior designer wants to wallpaper a wall.

Hoos waxaa ku yaal sawir gacan oo derbiga ah.

Ballaca duubka warqadda derbiga waa 52 cm, dhererkiisuna waa 10.5 m.

Immisa wareeg oo warqad (wallpaper) ayaa loo baahan yahay si loo dahaadho gidaarkan?



$$8.34 \div 0.52 = 16.038...$$

17 lengths needed

$$10.5 \div 2.46 = 4.268...$$

4 dherer oo ka mid ah wareeg kasta

$$17 \div 4 = 4.25$$

5 rolls are needed

Interior designer



Measurements in interior design



Finance in interior design

Hore waxaan u xisaabinay wadarta bedka (area) ee loo baahan yahay in la rinjiyeeyo oo ah 55.7904 m².

This paint covers 16 m² per litre.

Gidaarada waxay u baahan yihiin 2 lakab oo rinji (paint).

Size of tin (l)	Cost (£)
2.5	45.49
5	85.99
10	130.99

Xisaabi qiimaha rinjiga qolka, adoo hubinaya in aan jirin qashin (wastage) badan.

$$\begin{aligned}\text{Number of litres needed} &= 2 \times 55.7904 \div 16 \\ &= 6.9738 \\ &= 7 \text{ litres}\end{aligned}$$

Marka hore, aan xisaabino qiimaha (value) litirkiiba ee sanduuq kasta.
Waxaan u baahan doonnaa 7 litir.



Cabbirka (l)	Qiimaha (£)
2.5	45.49
1	



Cabbirka (l)	Qiimaha (£)
5	85.99
1	



Cabbirka (l)	Qiimaha (£)
10	130.99
1	



Sanduuqa 10 litir ayaa ah qiimaha (value) ugu fiican.

Laakiin, tani waxay ka tagi doontaa qashar ku dhow 3 litir.

Waa maxay iibsasho ka fiican oo leh qashar ugu yar?

Hal sanduuq oo 5 litir ah iyo hal 2.5 litir ah, in kastoo tani qaali tahay.

Waa kuwan shax qiimayaasha (prices) ee dhererka alwaaxa kala duwan.

Marka hore, aan xisaabino qiimaha (value) mitirkiiba ee alwaaxa si aan u barbar dhigno qiimayaasha (prices).

Waa maxay 2400 mm oo mitir ah?

$$2400 \div 1000 = 2.4 \text{ m}$$

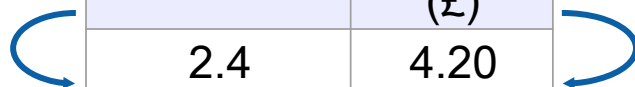
U beddel dhammaan dhererka mitir.

Dhererka (m)	Qiimaha (£)
2.4	4.20
3	5.25
3.6	6.30
4.2	7.35
4.8	8.40

Waa shax qiimaha (value) dhererka alwaaxda kala duwan.

Marka hore, aan xisaabino qiimaha (value) mitirkiiba alwaaxda si aan u barbardhigno qiimaha (value).

Dherer (m)	Qiimaha (£)
2.4	4.20
1	



Dherer (m)	Qiimaha (£)
2.4	4.20
3	5.25
3.6	6.30
4.2	7.35
4.8	8.40

Maaliyadda (Finance) naqshadda gudaha

Xisaabi qiimaha (value)
mitirkiiba dhererka 3 m.

Dherer (m)	Qiimaha (£)
2.4	4.20
3	5.25
3.6	6.30
4.2	7.35
4.8	8.40

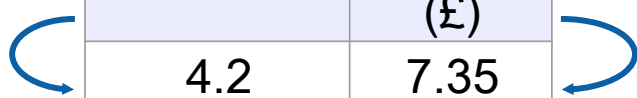
Xisaabi qiimaha (value)
mitirkiiba dhererka 3.6 m.

Dherer (m)	Qiimaha (£)
3	5.25
1	

Dherer (m)	Qiimaha (£)
3.6	6.30
1	

Waxay u egtahay in qiimaha (value) mitirkiiba uu isku mid yahay dhererka alwaaxda kasta oo aad iibsato.

Aynu hubinno labada dherer ee ugu dambeeya si aan u hubinno.



Dherer (m)	Qiimaha (£)
4.2	7.35
1	



Dherer (m)	Qiimaha (£)
4.8	8.40
1	

Qiimaha (value) mitirkiiba waa isku mid dherer kasta oo alwaax ah.

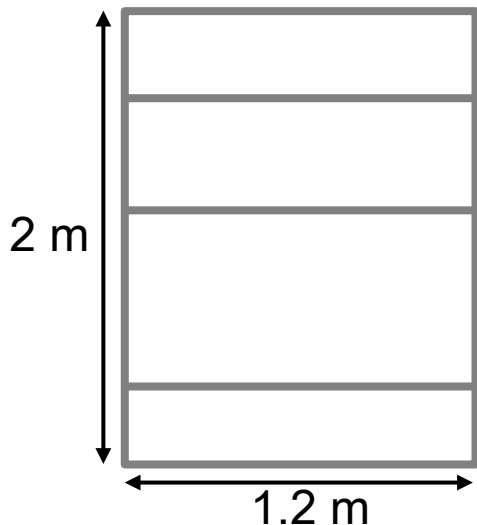
Xaaladdan waxaad hubaal doonaysaa inaad qashinka ku yaraysid, maadaama aysan jirin faa'iido qiimo (value) ah oo ku timid iibsashada alwaax dheer.

Maaliyadda (Finance) naqshadda gudaha

Naqshadeeye gudaha wuxuu rabaa inuu dhiso laba buug-qaade oo noocan ah oo ku yaal meel god ah.

Hoos waxaa ku yaal sawir qorshaysan oo buug-qaadaha.

Xisaabi qiimaha (value) alwaaxa adoo hubinaya qashinka ugu yar.

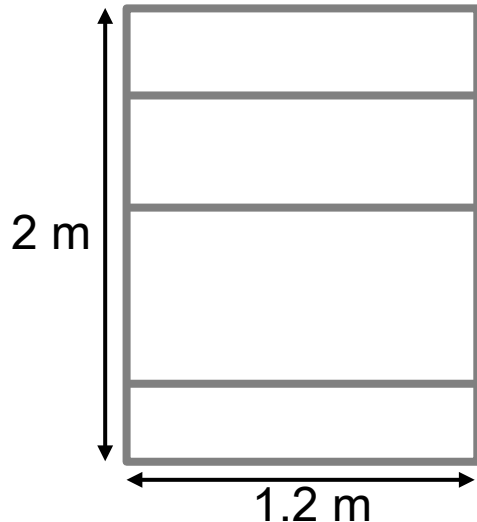


Ma caqli gal ah inaad ku bilowdo dhererka dheer ama gaaban?

Dhererka dheer, sababtoo ah 'gooyinka' ayaa laga yaabaa inuu ku habboonaado dhererka gaaban.

Dhererka (m)	Qiimaha (£)
2.4	4.20
3	5.25
3.6	6.30
4.2	7.35
4.8	8.40

Laba buug-qaade ayaa loo baahan yahay.



Sideen u samayn karnaa afar dherer oo 2 m ah?

libso:

- Afar dherer oo 2.4 m ah
- Afar dherer oo 3 m ah
- Afar dherer oo 3.6 m ah
- Laba dherer oo 4.2 m ah
- Laba dherer oo 4.8 m ah

Dhererka (m)	Qiimaha (£)
2.4	4.20
3	5.25
3.6	6.30
4.2	7.35
4.8	8.40

Laakiin kee baa soo saara qashinka ugu yar?

Maaliyadda (Finance) ee naqshada gudaha (interior design)

Laba sariir buug (bookshelves) ayaa loo baahan yahay.

Aynu tixgelinno qashinka (wastage) mid kasta:

- Afar dherer 2.4 m
 - Afar dherer 3 m
 - Afar dherer 3.6 m
 - Laba dherer 4.2 m
 - Laba dherer 4.8 m
- Afar dherer 0.4 m
Afar dherer 1 m
Afar dherer 1.6 m
Laba dherer 0.2 m
Laba dherer 0.8 m

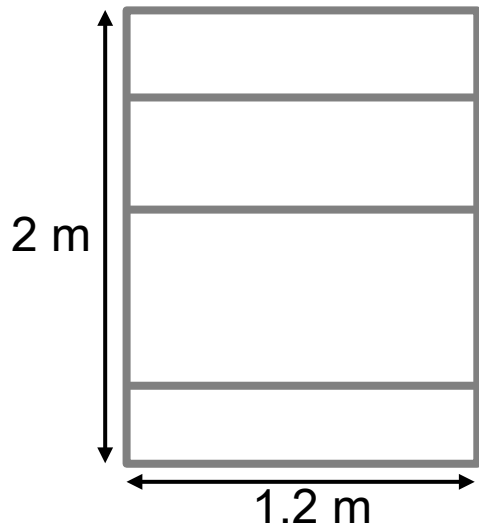
Dherer (m)	Qiimaha (Price) (£)
2.4	4.20
3	5.25
3.6	6.30
4.2	7.35
4.8	8.40

Soo saarta qashinka ugu yar (least wastage).

Si kastaba ha ahaatee, 'off cuts' (gooynaha hadhay) halkan waxaa loo isticmaali karaa dhererka jiifka (horizontal lengths).

Maaliyadda (Finance) ee naqshada gudaha (interior design)

Laba godob buug ayaa loo baahan yahay.



Sidee u samayn karnaa toban dherer 1.2 m?

libso (Buy):

- Shan dherer 2.4 m
- Shan dherer 3 m
- Afar dherer oo 3.6 m ah
- Afar dherer oo 4.2 m ah
- Saddex dherer oo 4.8 m ah

Dhererka (m)	Qiimaha (£)
2.4	4.20
3	5.25
3.6	6.30
4.2	7.35
4.8	8.40

Laakiin kee baa soo saara qashinka ugu yar?

Maaliyadda (Finance) ee naqshadaynta gudaha

Laba sariir buug (bookshelves) ayaa loo baahan yahay.

Aynu tixgelinno qashinka mid kasta:

- Shan dherer oo 2.4 m ah
 - Shan dherer oo 3 m ah
 - Afar dherer oo 3.6 m ah
 - Afar dherer oo 4.2 m ah
 - Saddex dherer oo 4.8 m ah
- Qashin eber (Zero wastage)
- Shan dherer oo 0.6 m ah
- Hal dherer oo 2.4 m ah
- Afar dherer oo 0.6 m ah
- Hal dherer oo 2.4 m ah

Dhererka (m)	Qiime (Price) (£)
2.4	4.20
3	5.25
3.6	6.30
4.2	7.35
4.8	8.40

Waxaa jiri lahaa qashin eber (zero wastage) maadaama dherer kasta si sax ah loo goyn karo laba dherer oo midkiiba 1.2 mitir ah.

Aynu hadda eegno isticmaalka 'gooyinka' (off cuts) ee dhererka dheer.

Maaliyadda (Finance) qurxinta gudaha (interior design)



Qoryaha (Wood) loo baahan yahay:

- 4 × 2 m
- 10 × 1.2 m

La iibsaday (Purchased)	Qashin (Wastage)	
Dherer (Length)		Jajabyo (off cuts) la isticmaali karo.
4 × 3.6 m	4 × 1.6 m	
2 × 4.2 m	2 × 0.2 m	

Jajabyadan (off cuts) waxaa loo isticmaali karaa afar ka mid ah dhererka 1.2 m.
Imisa dherer oo 1.2 m ah ayaa weli loo baahan yahay?

10 - 4 = 6

Dherer (Length) (m)	Qiime (Price) (£)
2.4	4.20
3	5.25
3.6	6.30
4.2	7.35
4.8	8.40

Qoryaha (Wood) weli loo baahan yahay:
 $6 \times 1.2 \text{ m}$

Waa maxay habka ugu fiican ee loo iibsado (purchase) kuwii kor ku xusan?

Midkood saddex dherer oo 2.4 m ah ama laba dherer oo 3.6 m ah.

Labadooduba waxay soo saaraan eber qashin (zero wastage) labadooduna waxay keenaan isku qiime (price) la bixiyo.

Dherer (Length) (m)	Qiime (Price) (£)
2.4	4.20
3	5.25
3.6	6.30
4.2	7.35
4.8	8.40

Qori loo baahan yahay:

$4 \times 2 \text{ m}$

$10 \times 1.2 \text{ m}$

Waxaan iibsanaa karnaa $2 \times 4.2 \text{ m}$ iyo $5 \times 2.4 \text{ m}$ dherer ama $4 \times 3.6 \text{ m}$ iyo $2 \times 3.6 \text{ m}$ dherer.

Ikhtiyaarka koowaad $2 \times 4.2 \text{ m}$ wuxuu sameeyaa $4 \times 2 \text{ m}$ dherer iyo 0.4 m qashin, $5 \times 2.4 \text{ m}$ wuxuu sameeyaa $10 \times 1.2 \text{ m}$ dherer iyadoo aan qashin lahayn.

Ikhtiyaarka labaad $4 \times 3.6 \text{ m}$ wuxuu sameeyaa $4 \times 2 \text{ m}$ dherer iyo $4 \times 1.6 \text{ m}$ qashin, $4 \times 1.6 \text{ m}$ oo sameeya $4 \times 1.2 \text{ m}$ dherer iyadoo 1.6 m qashin ah, iyo $2 \times 3.6 \text{ m}$ oo sameeya $6 \times 1.2 \text{ m}$ dherer iyadoon qashin lahayn.

Sidaas darteed, ikhtiyaarka koowaad wuxuu leeyahay qashinka ugu yar.

Xisaabi qiimaha ikhtiyaarka 1:

$2 \times 4.2 \text{ m}$ dherer iyo $5 \times 2.4 \text{ m}$ dherer

Qiimaha ikhtiyaarka 1 = $2 \times \text{£}7.35 + 5 \times \text{£}4.20$
= $\text{£}35.70$

Ma waxaad filaysaa in ikhtiyaarka 2 uu ka qiimo yar yahay, isku mid yahay, ama ka qiimo badan yahay ikhtiyaarka 1? Sharax jawaabtaada.

Dhererka (m)	Qiimaha (£)
2.4	4.20
3	5.25
3.6	6.30
4.2	7.35
4.8	8.40

Xisaabi qiimaha ikhtiyaarka 2:

$4 \times 3.6 \text{ m}$ dherer iyo $2 \times 3.6 \text{ m}$ dherer

$$\begin{aligned}\text{Qiimaha ikhtiyaarka 2} &= 4 \times \text{£}6.30 + 2 \times \text{£}6.30 \\ &= \text{£}37.80\end{aligned}$$

Dhererka (m)	Qiimaha (£)
2.4	4.20
3	5.25
3.6	6.30
4.2	7.35
4.8	8.40

Waxay ku kacdaa qiimo badan. Maaddaama qiimaha mitirkiiba uu isku mid u yahay dhererka oo dha
leh qashinka ugu yar uu yahay kan ugu jaban.

1) Wadarta bedka (area) ee loo baahan yahay in la rinjiyeeyo gudaha waa 211.2 m².

Rinjigu wuxuu daboolaa 16 m² halkii litir.

Gidaarrada waxay u baahan doonaan 2 lakab oo rinji ah.

Xisaabi qiimaha rinjiga qolka, adoo hubinaya in aan jirin qashin (wastage) badan.

Size of tin (l)	Cost (£)
2.5	45.49
5	85.99
10	130.99

2) Waxaan u baahanahay dhererka alwaaxda (wood) ee soo socda:

4×1.9 m, 6×1.7 m and 4×0.5 m

a) Waa maxay qiimaha alwaaxda iyadoo la yareynayo qashinka (wastage)?

b) Immisa qashin (wastage) ayaa jira?

Length (m)	Price (£)
2.4	4.20
3	5.25
3.6	6.30
4.2	7.35
4.8	8.40

1) The total area that needs painting in a house is 211.2 m².

The paint covers 16 m² per litre.

Gidaarada waxay u baahan yihiin 2 lakab oo rinji (paint).

Xisaabi qiimaha rinjiga qolka, adoo hubinaya in aan jirin qashin (wastage) badan.

Size of tin (l)	Cost (£)
2.5	45.49
5	85.99
10	130.99

$$\begin{aligned}\text{Number of litres needed} &= 211.2 \times 2 \div 16 \\ &= 26.4 \\ &= 27 \text{ litres}\end{aligned}$$

Waxa ugu dhow ee aad ka heli karto 27 litir waa 2 × 10 litir, 1 × 5 litir iyo 1 × 2.5 litir.

$$\begin{aligned}\text{Cost} &= 2 \times £130.99 + £85.99 + £45.49 \\ &= £393.46\end{aligned}$$

2) Waxaan u baahanahay dhererka alwaaxdan soo socda:

$4 \times 1.9 \text{ m}$, $6 \times 1.7 \text{ m}$ iyo $4 \times 0.5 \text{ m}$

a) Waa maxay qiimaha (value) alwaaxda leh qasharka ugu yar?

b) Immisa qashar ayaa jira?

Dhererka (m)	Qiimaha (£)
2.4	4.20
3	5.25
3.6	6.30
4.2	7.35
4.8	8.40

$4 \times 2.4 \text{ m}$ wuxuu sameeyaa $4 \times 1.9 \text{ m}$ dherer iyo $4 \times 0.5 \text{ m}$ dherer oo haray. $3 \times 3.6 \text{ m}$ wuxuu samee

a) $4 \times £4.20 + 3 \times £6.30 = £35.70$

b) 0.6 m qashar

Naqshadeeye gudaha wuxuu isticmaalaa qaybo kala duwan oo xisaab ah.

Laba tusaale ayaa ah xisaabinta tirada kiilada rinji ee loo baahan yahay si loo dhammeeyo shaqo iyo tirada wareegyada (rolls) ee qori-dhagaxa (wallpaper) ee loo baahan yahay si loo dhammeeyo shaqo.

Inta badan naqshadeeye gudaha wuxuu doonayaa inuu tixgeliyo yareynta qasharka agabka, ilaa laga yaabo inuu isticmaali karo agabka shaqo kale.