



MÉTHODE (construire un triangle quelconque)

On veut tracer le triangle KLM tel que $KL = 6\text{ cm}$, $LM = 5\text{ cm}$ et $KM = 4,5\text{ cm}$.

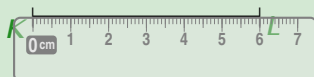
Au brouillon :

Voici une figure à main levée possible correspondant à notre triangle :

Tracé (les figures sont dessinées ici $2\times$ plus petites) :

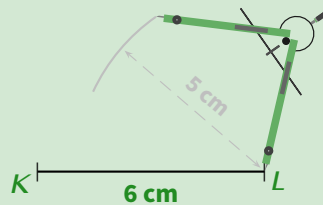
① on trace

.....
.....
.....



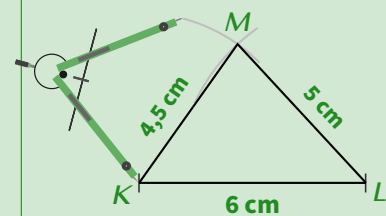
② M est situé à 5 cm de L , donc on trace

.....
.....



③ M est situé à $4,5\text{ cm}$ de K , donc on trace

.....
.....



MÉTHODE (construire un triangle avec deux longueurs et un angle)

Pour construire le triangle ABS tel que $AB = 5,2\text{ cm}$, $BS = 4\text{ cm}$ et $\widehat{ABS} = 99^\circ$, on commence par tracer une figure (en l'absence d'une figure donnée par l'énoncé).

On passe ensuite au tracé en 3 étapes :

① On trace

.....
.....



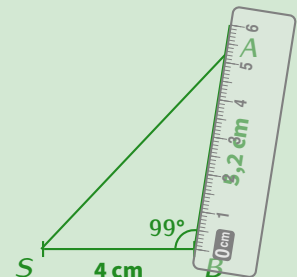
② On construit

.....
.....



③ On mesure

.....
.....





MÉTHODE (construire un triangle avec une longueur et deux angles)

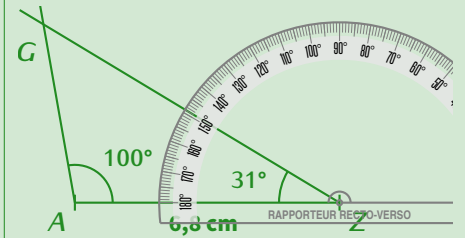
Pour tracer le triangle ZAG tel que $AZ = 6,8 \text{ cm}$, $\widehat{GAZ} = 100^\circ$ et $\widehat{AZG} = 31^\circ$, on commence encore par tracer une figure à main levée...

On passe ensuite au tracé en 3 étapes :

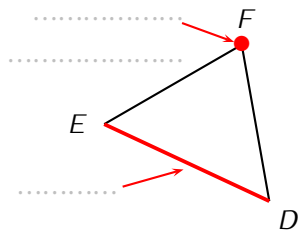
① On trace

② On construit

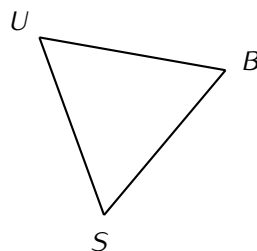
③ On construit



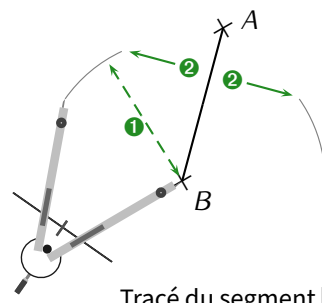
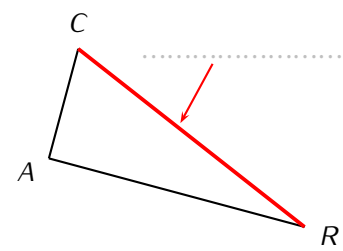
Triangle



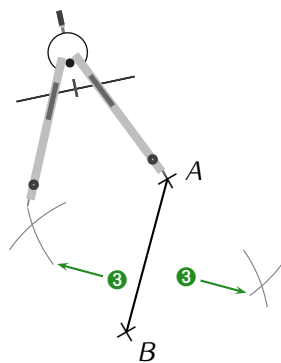
Triangle



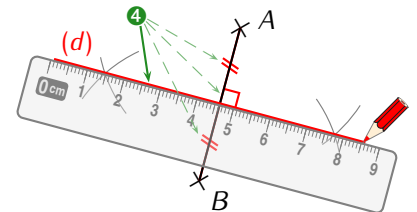
Triangle



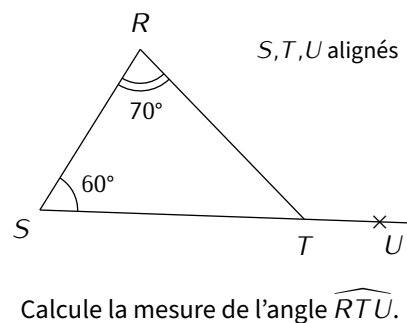
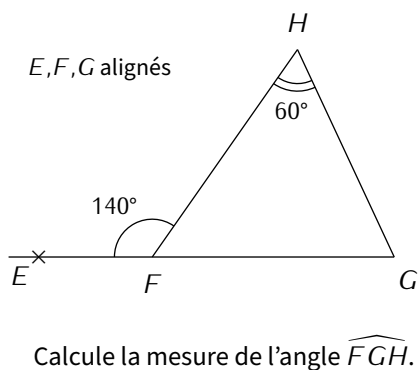
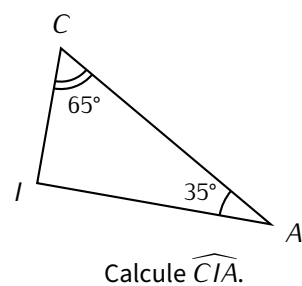
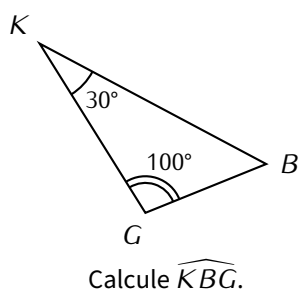
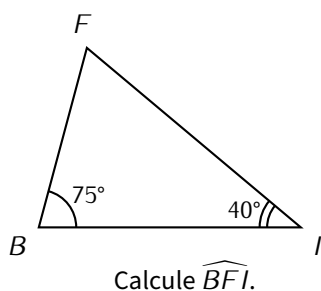
Tracé du segment $[AB]$.



Avec le compas, on construit deux points à égales distance de A et B.

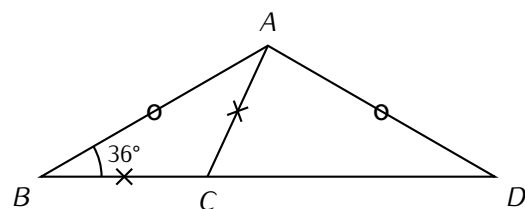


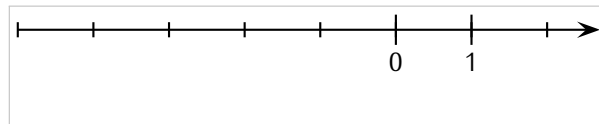
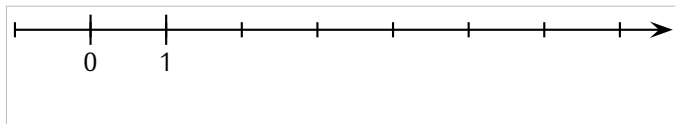
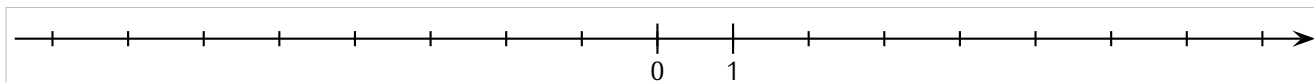
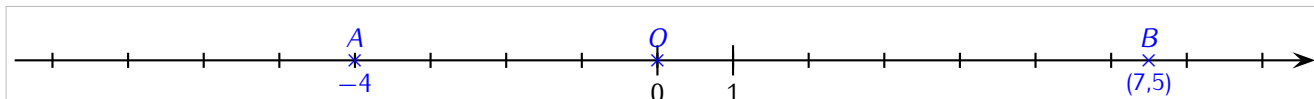
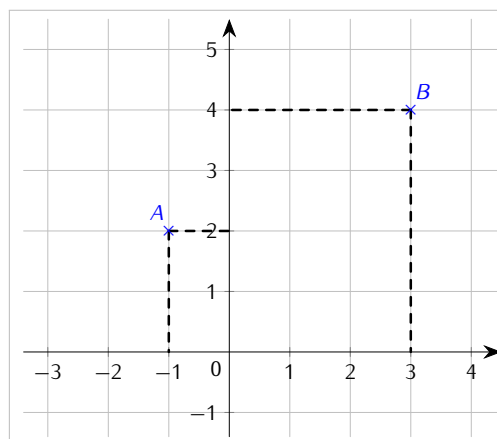
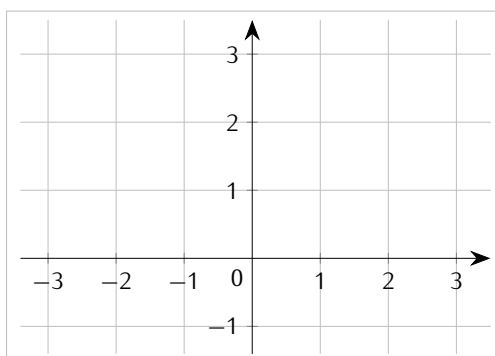
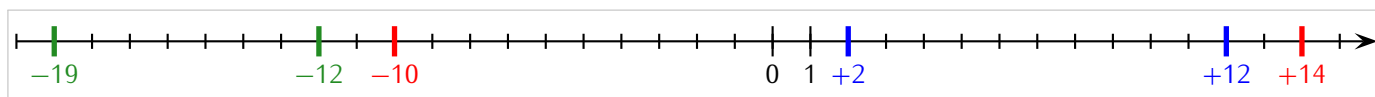
On relie les deux points construits avec une règle, sans oublier **les codages** !



Sur la figure ci-contre, les points B, C et D sont alignés.

- En utilisant les indications de la figure, calcule les angles \widehat{BAC} , \widehat{BCA} , \widehat{ACD} , \widehat{BDA} et \widehat{CAD} , dans cet ordre.
- Que peut-on dire du triangle ACD ? Justifie ta réponse.
- Construis la figure lorsque $AC = 5$ cm.



1^{er} exemple du paragraphe 2 :2^e exemple du paragraphe 2 :3^e exemple du paragraphe 2 :

1	2	3	4	5	6	7	8	9	10
11	12	13	14	15	16	17	18	19	20
21	22	23	24	25	26	27	28	29	30
31	32	33	34	35	36	37	38	39	40
41	42	43	44	45	46	47	48	49	20
51	52	53	54	55	56	57	58	59	60
61	62	63	64	65	66	67	68	69	70
71	72	73	74	75	76	77	78	79	80
81	82	83	84	85	86	87	88	89	90
91	92	93	94	95	96	97	98	99	100

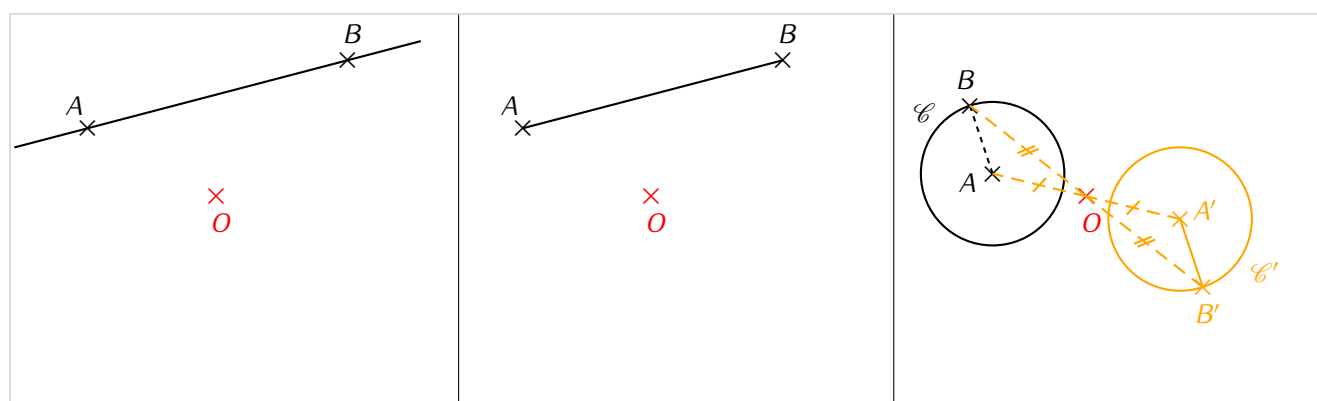
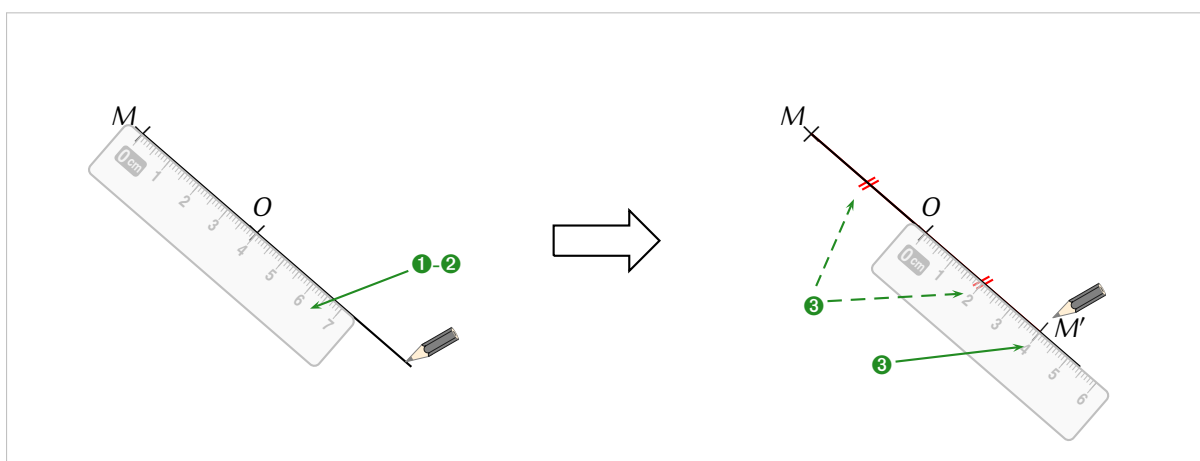
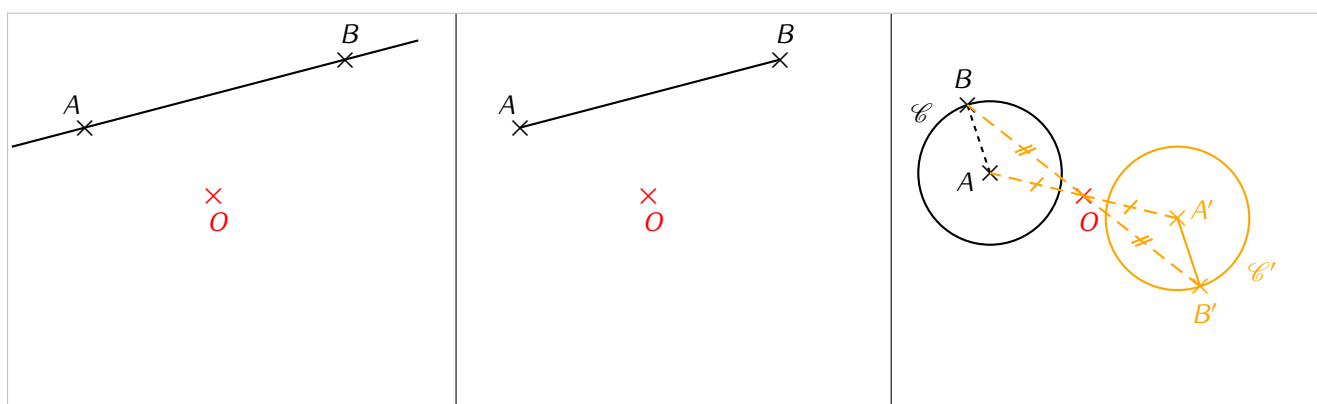
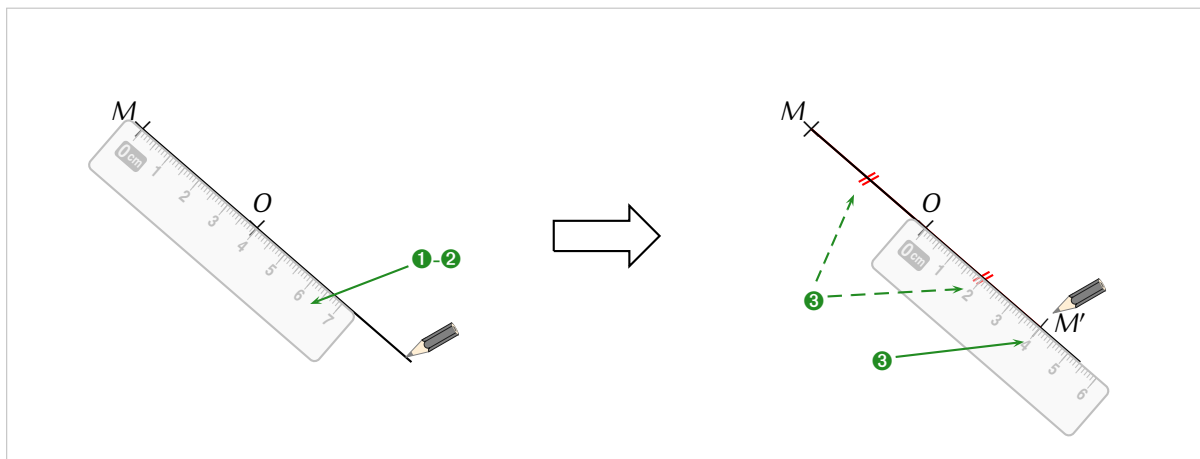
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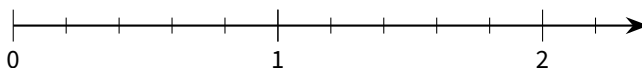
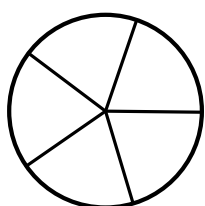
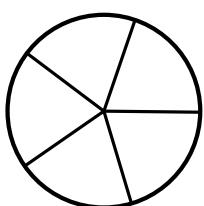
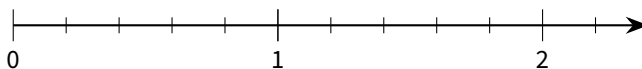
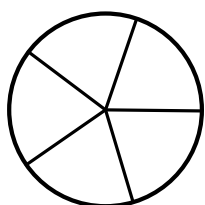
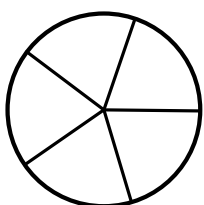
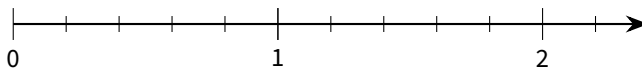
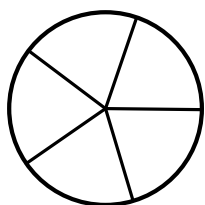
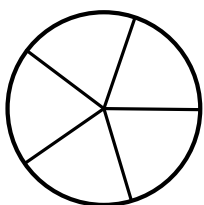
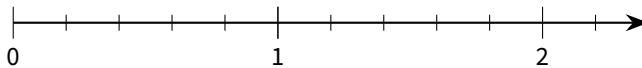
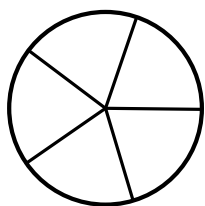
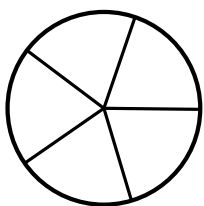
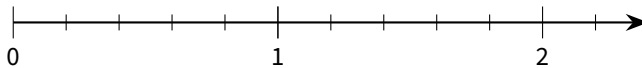
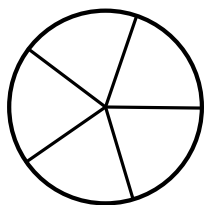
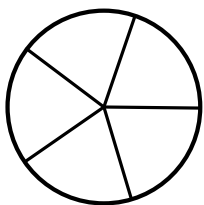
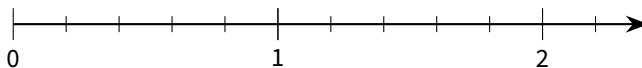
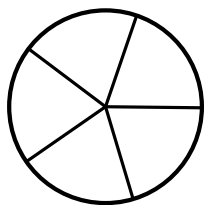
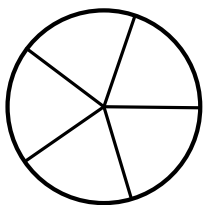
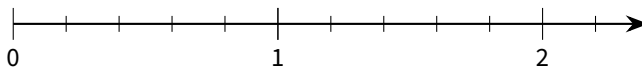
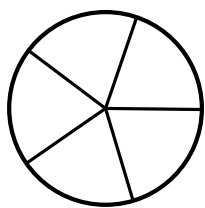
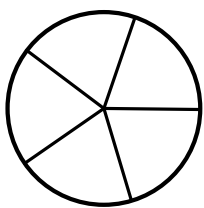


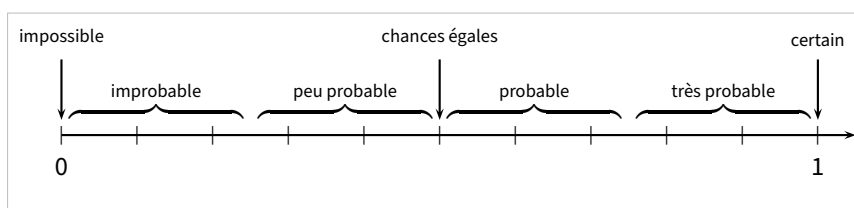
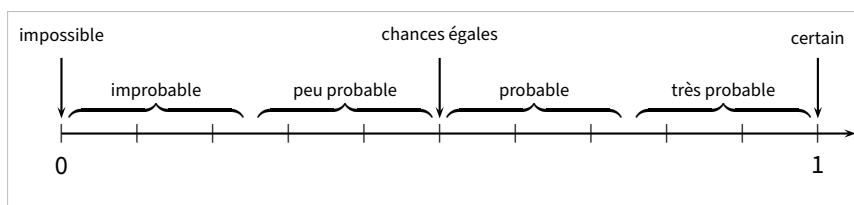
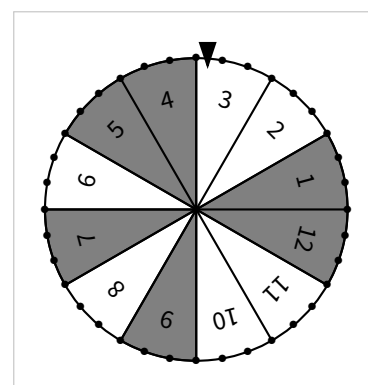
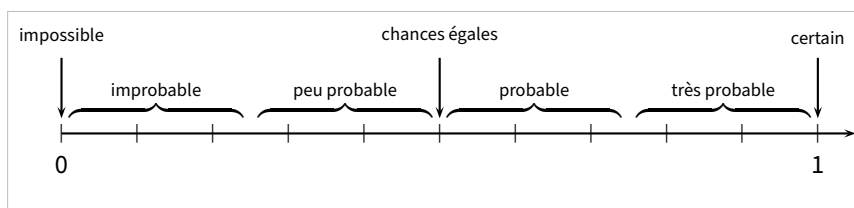
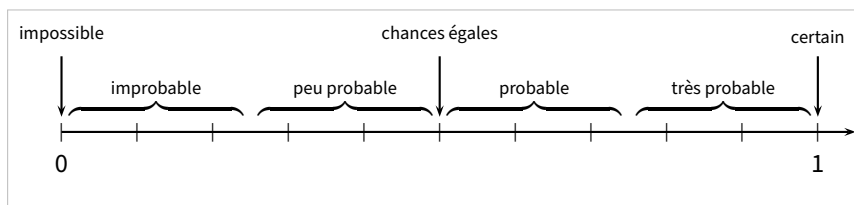
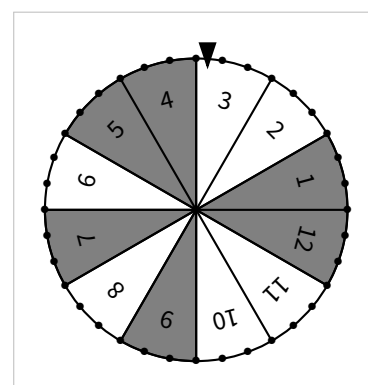
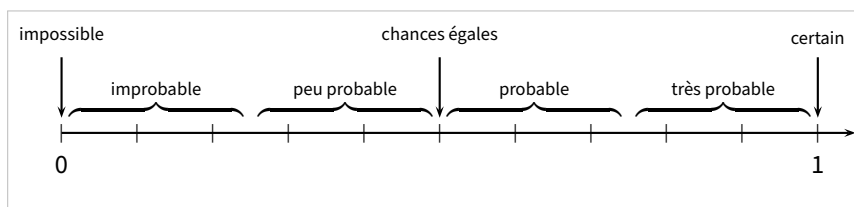
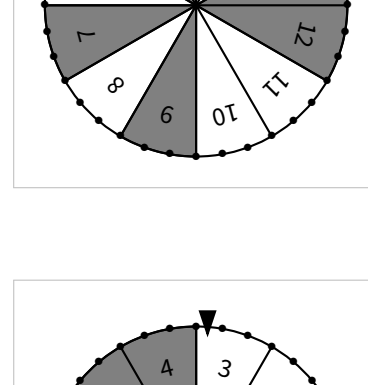
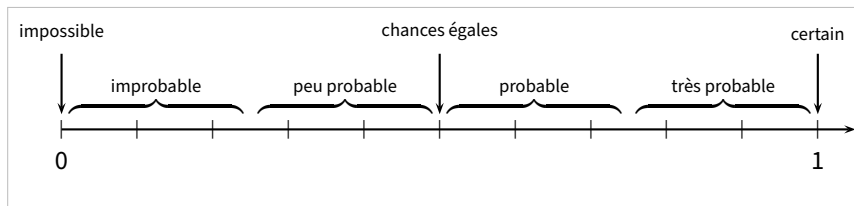
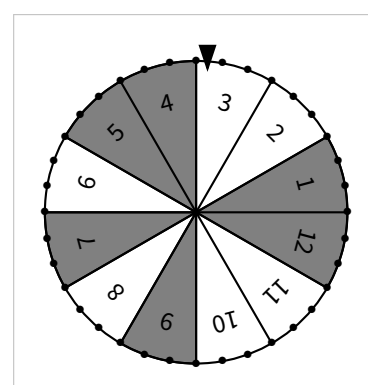
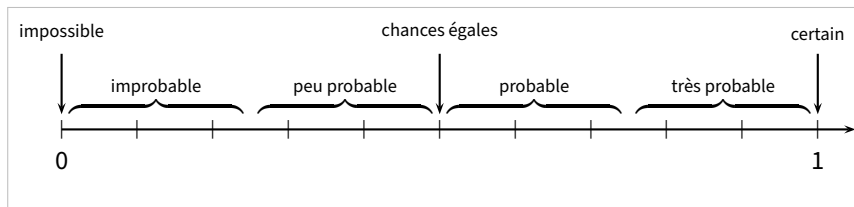
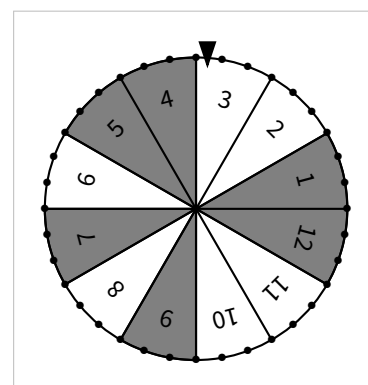
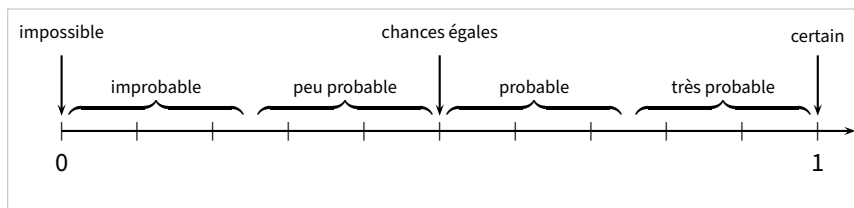
Calcul	Décomposition		1 ^{re} pari	2 ^e pari	Bilan	Résultat du calcul
$(-2) + (+10)$	-2	+10	-2 €	+10 €	+8 €	8
$(-10) + (+5)$	-10	+5				
$14 + (-7)$						
$(-4) + (-2)$						
$(-1) + 5$						
$(-2) + (+5)$						
$(-3) + (-4)$						

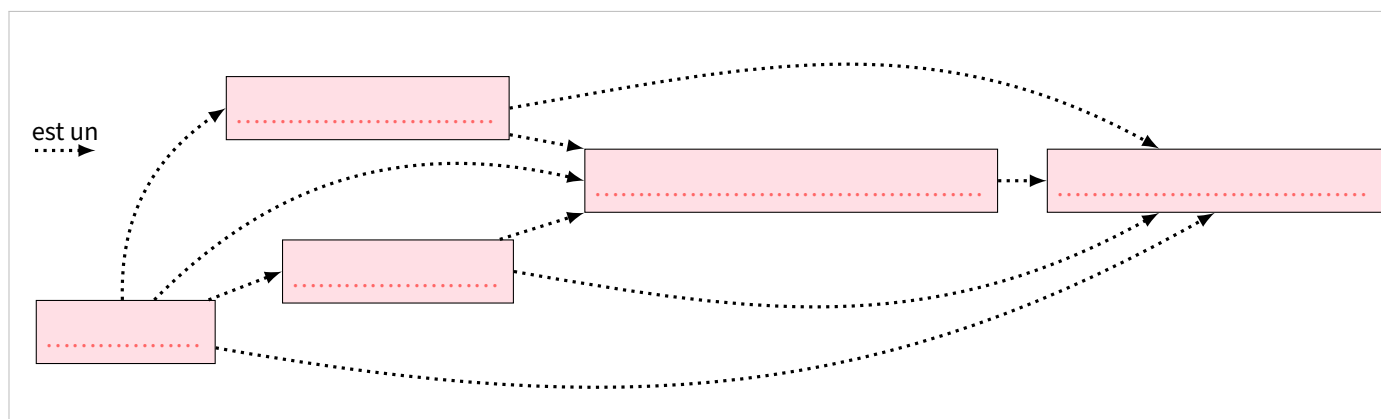
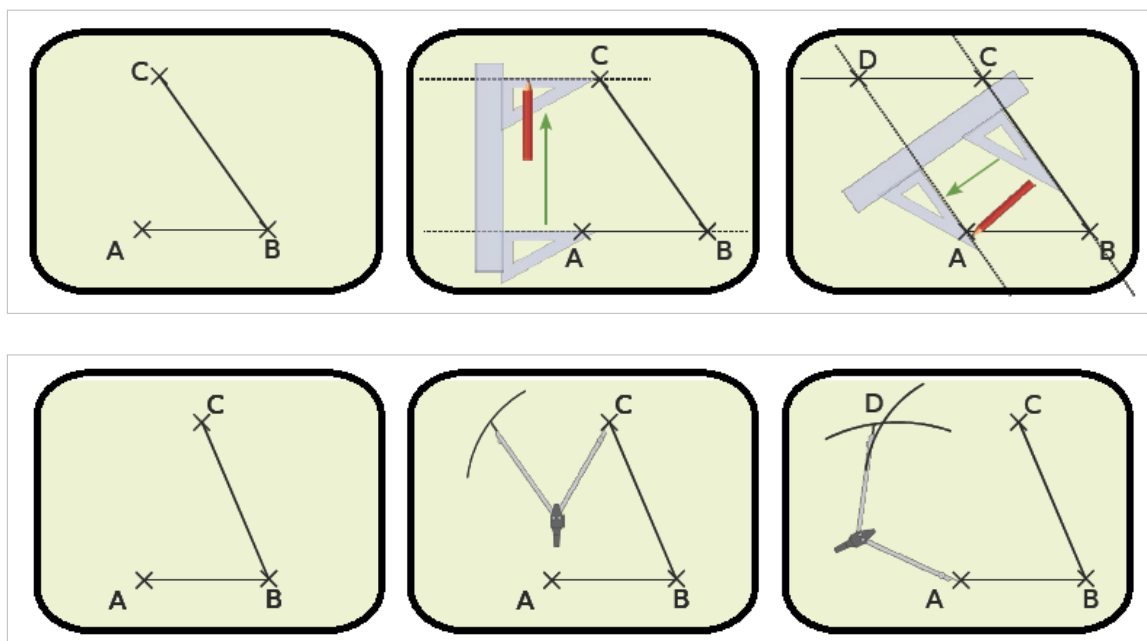
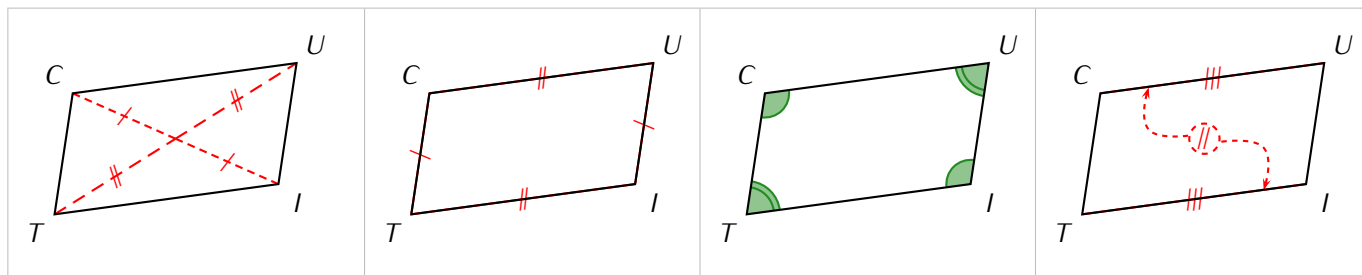
Calcul	Calcul transformé	Décomposition		1 ^{re} pari	2 ^e pari	Bilan	Résultat du calcul
$(-12) - (+15)$	$(-12) + (-15)$	-12	-15	-12 €	-15 €	-27 €	-27
$(+3) - (-7)$	$(+3) + (+7)$						
$(-4) - (-2)$							
$(-5) - (+1)$							
$(-6) - (+8)$							
$(+3) - (+5)$							
$(-5) - (-7)$							

Calcul	Décomposition		1 ^{re} pari	2 ^e pari	Bilan	Résultat du calcul
$(-2) + (+10)$	-2	+10	-2 €	+10 €	+8 €	8
$(-10) + (+5)$	-10	+5				
$14 + (-7)$						
$(-4) + (-2)$						
$(-1) + 5$						
$(-2) + (+5)$						
$(-3) + (-4)$						

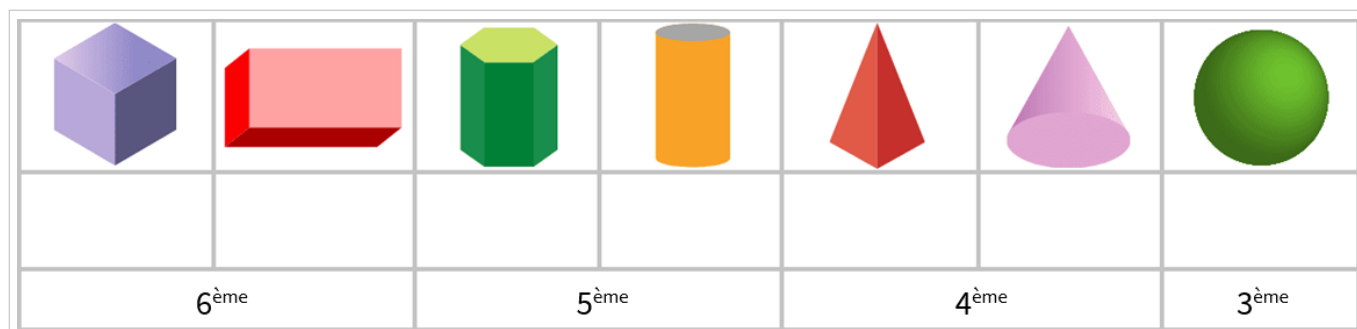
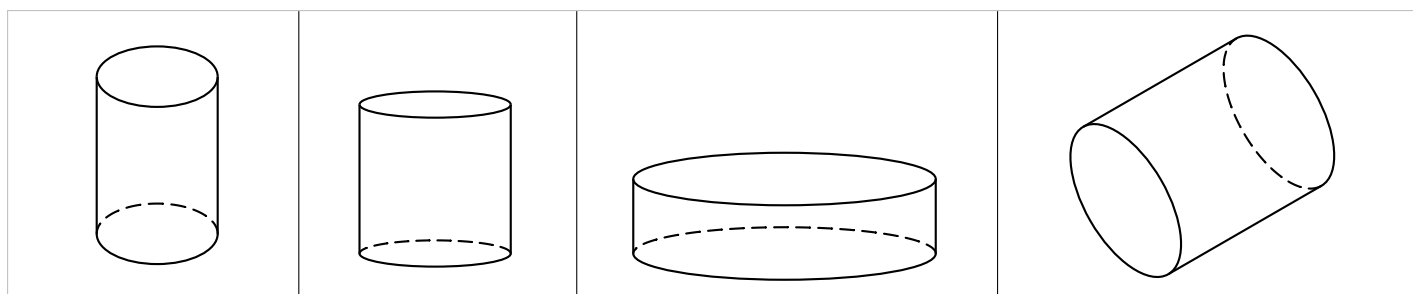
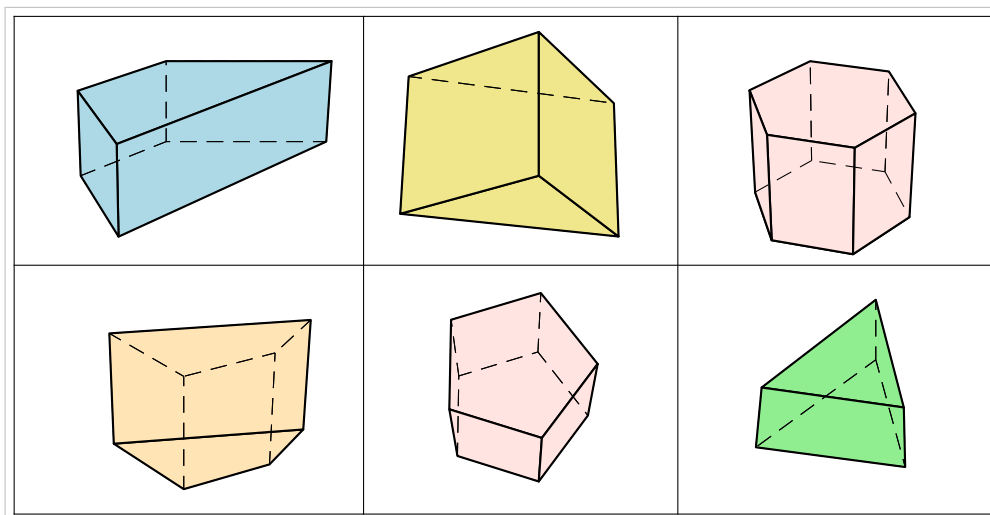
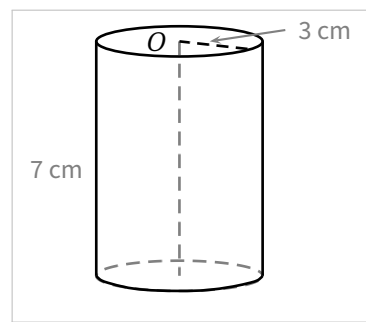
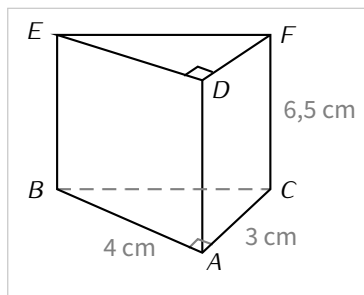
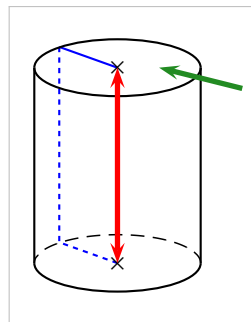
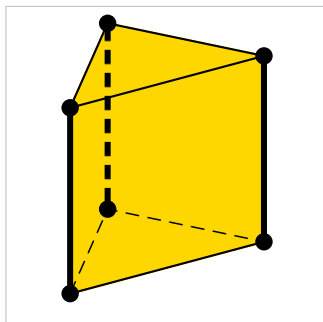
Calcul	Calcul transformé	Décomposition		1 ^{re} pari	2 ^e pari	Bilan	Résultat du calcul
$(-12) - (+15)$	$(-12) + (-15)$	-12	-15	-12 €	-15 €	-27 €	-27
$(+3) - (-7)$	$(+3) + (+7)$						
$(-4) - (-2)$							
$(-5) - (+1)$							
$(-6) - (+8)$							
$(+3) - (+5)$							
$(-5) - (-7)$							

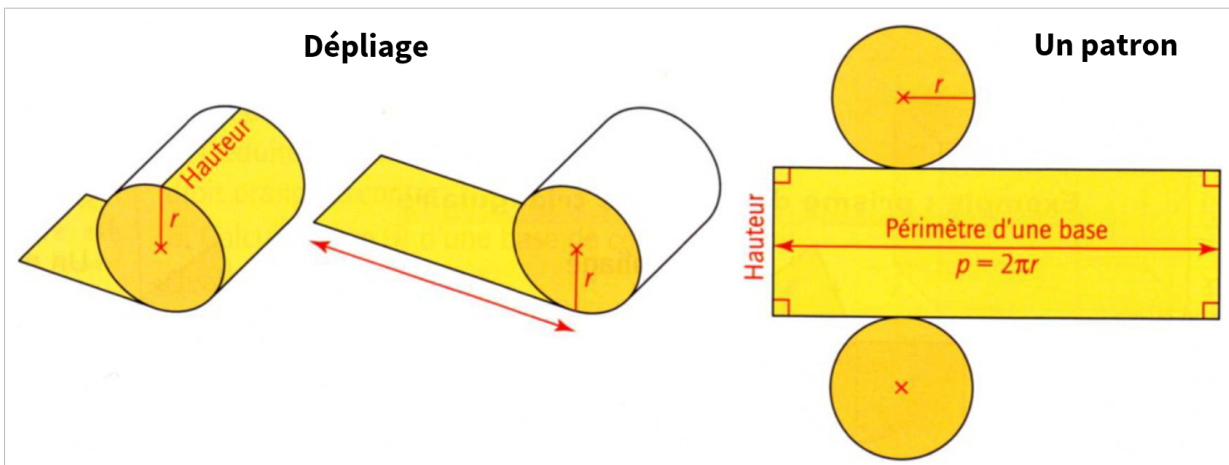
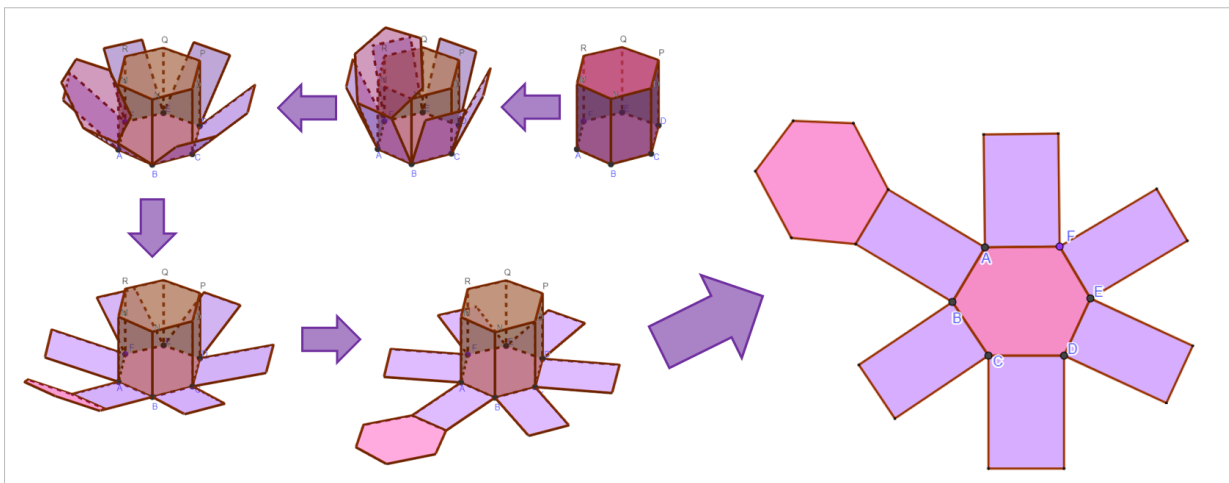
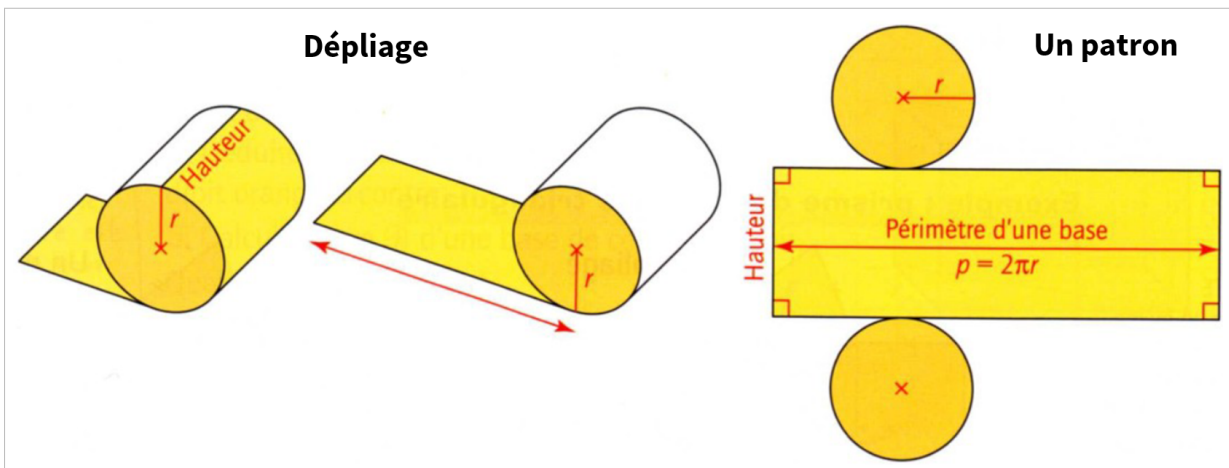
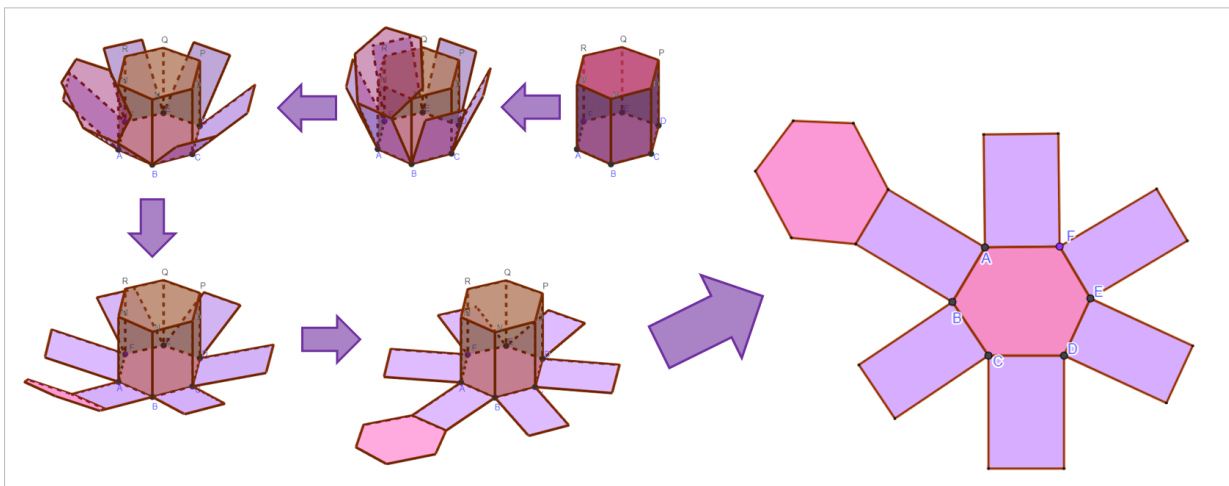












A	B	C	D	E
On a demandé à 20 élèves de cinquième (c'est la population) de donner leur couleur préférée :	On a demandé aux élèves d'une classe combien ils avaient de téléphones chez eux. Voici les réponses :	Alain Provost jette un dé classique et note le numéro à chaque lancer. Il lance ce dé 30 fois :	Voici les notes (sur 10) obtenues au dernier contrôle de la classe d'Olive Rogne :	Un élève a demandé à 25 personnes à l'arrêt de bus quel était leur sport favori :
<div> <div>B</div><div>V</div><div>J</div><div>B</div><div>R</div> </div> <div> <div>B</div><div>O</div><div>J</div><div>V</div><div>V</div> </div> <div> <div>B</div><div>O</div><div>B</div><div>V</div><div>O</div> </div> <div> <div>B</div><div>R</div><div>J</div><div>V</div><div>B</div> </div>	1 - 0 - 1 - 2 - 2 - 4 - 1 - 5 - 1 - 3 - 0 - 2 - 3 - 1 - 0 - 3 - 3 - 4 - 2 - 1 - 1 - 0 - 2 - 2 - 3	3 - 1 - 6 - 2 - 2 - 1 - 4 - 5 - 1 - 4 - 6 - 3 - 2 - 3 - 3 - 5 - 5 - 6 - 1 - 2 - 6 - 1 - 2 - 1 - 4 - 3 - 3 - 4 - 3 - 6	6 - 7 - 2 - 4 - 7 - 4 - 10 - 7 - 4 - 4 - 10 - 2 - 5 - 5 - 4 - 6 - 6 - 7 - 6 - 7	football → 8; basket → 4; rugby → 2; gymnastique → 6 et danse → 5

B →

Nombre de téléphones	0	1	2	3	4	5	Total
Effectifs	4						
Fréquence (écriture fractionnaire)	$\frac{4}{25}$						
Fréquence (écriture décimale)	0,16						
Fréquence (pourcentage)	16						

C →

Numéro sur le dé	1	2	3	4	5	6	Total
Effectifs							
Fréquence (écriture fractionnaire)	$\frac{6}{30}$						
Fréquence (écriture décimale)							
Fréquence (pourcentage)							

E →

