

# L'ARCHITEK



## **Description du matériel :**

- 18 solides géométriques : 2 cylindres, 4 parallélépipèdes rectangles, 4 cubes, un demi-cylindre, 4 parallélépipèdes trapézoïdaux, un pont, 2 prismes triangulaires ;
- 4 séries de cartes-problèmes numérotées et graduées en difficulté (trois niveaux) :
  - . verte : les ombres : 35 cartes-problèmes,
  - . orange : les équilibres : 25 cartes-problèmes,
  - . fuchsia : les réductions : 20 cartes-problèmes,
  - . rouge : les alignements : 20 cartes-problèmes ;
- 4 feuilles de route.

**Nombre de joueurs** : 1 par lot de matériel (l'activité est individuelle mais plusieurs enfants peuvent la faire simultanément).

**Objectif** : Apprendre à décoder et utiliser des informations d'ordre spatial et géométrique.

**Compétences** : Nommer certains solides (cube, cylindre, demi-cylindre, pont, prisme triangulaire, parallélépipède rectangle, parallélépipède trapézoïdal).  
Etablir des liens entre un solide et ses faces.  
Explorer les notions d'angle et de projection.  
Explorer certaines notions relatives aux forces et à leurs applications dans des constructions simples.  
Passer du plan horizontal au plan vertical.

**Règle du jeu** : En respectant les indices fournis sur une carte-problème placer des solides géométriques sur la carte ou sur la table pour réaliser la figure géométrique proposée.  
Il n'est pas toujours nécessaire d'utiliser la totalité des solides.

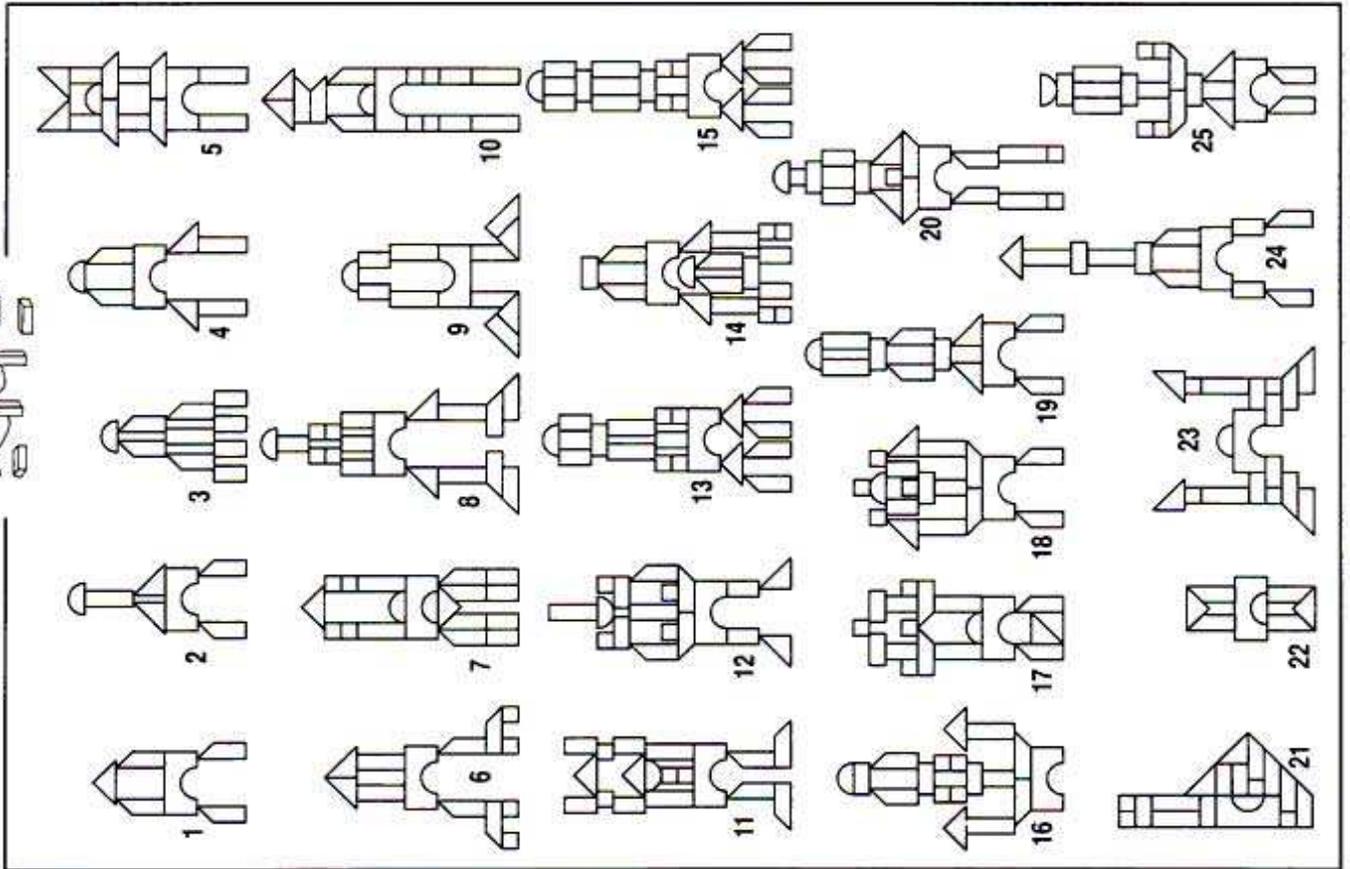
## FEUILLE DE ROUTE : Equilibres

Je colorie ou j'entoure le modèle correspondant à la carte-problème que j'ai réalisée.



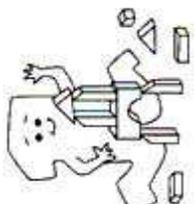
Checklist

Feuille de route



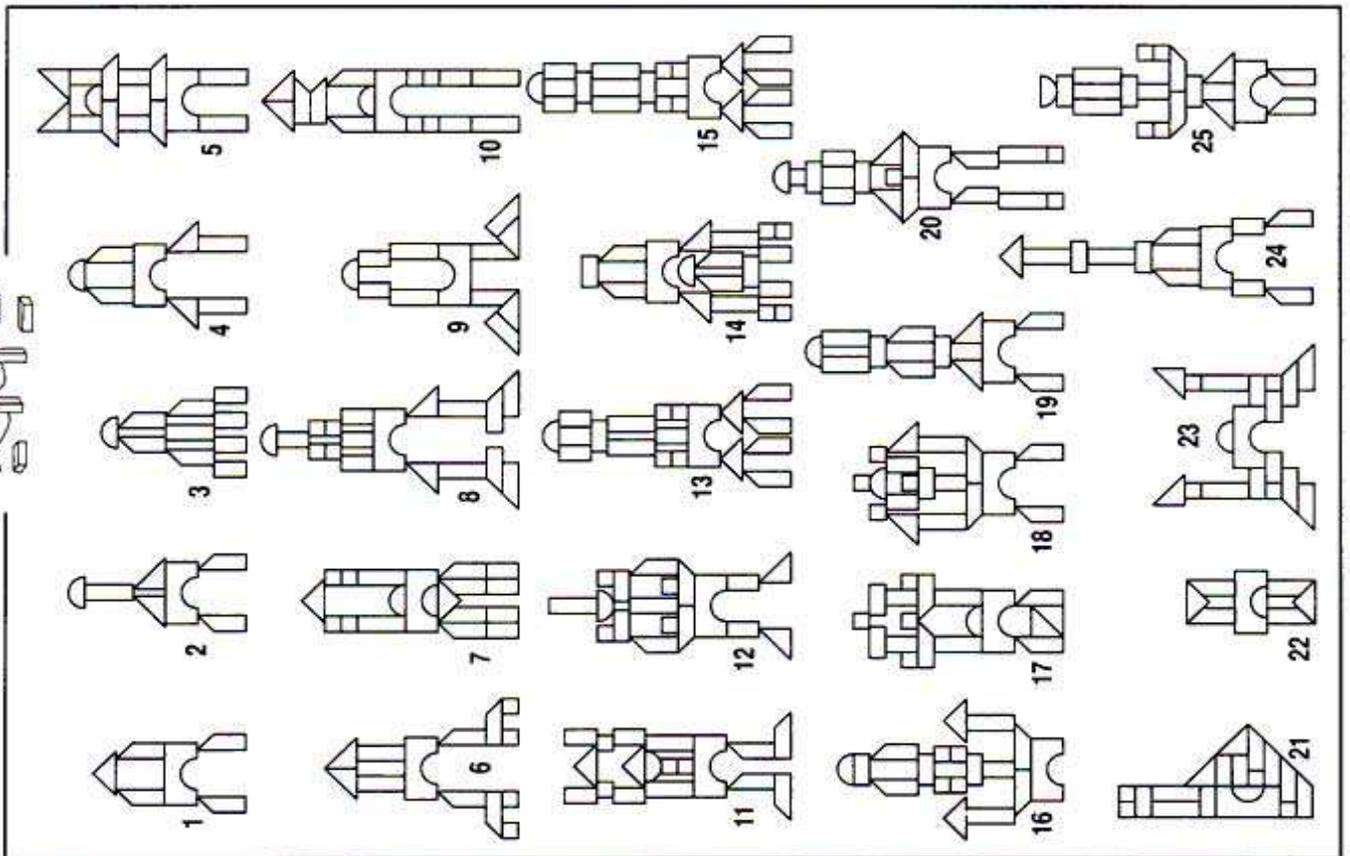
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Checklist

Feuille de route



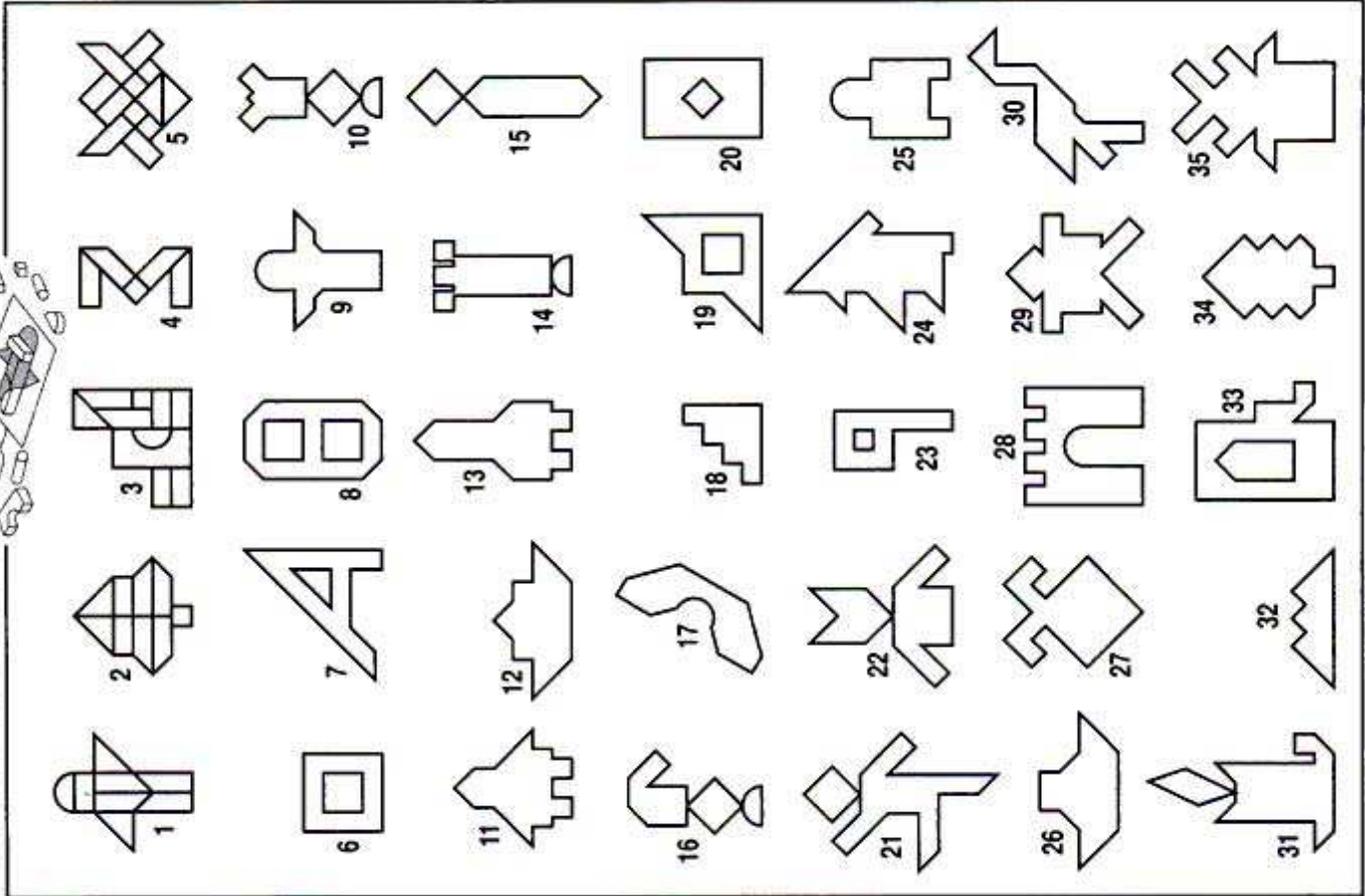
## FEUILLE DE ROUTE : Ombres

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**Feuille de route**



**Checklist**



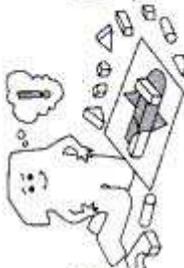
The grid contains 35 numbered shapes arranged in 5 rows and 7 columns:

- Row 1: 1. A house with a chimney, 2. A house with a chimney, 3. A house with a chimney, 4. A house with a chimney, 5. A house with a chimney.
- Row 2: 6. A square with a smaller square inside, 7. A triangle with a smaller triangle inside, 8. A square with a smaller square inside, 9. A house with a chimney, 10. A house with a chimney.
- Row 3: 11. A house with a chimney, 12. A house with a chimney, 13. A house with a chimney, 14. A house with a chimney, 15. A house with a chimney.
- Row 4: 16. A house with a chimney, 17. A house with a chimney, 18. A house with a chimney, 19. A house with a chimney, 20. A house with a chimney.
- Row 5: 21. A house with a chimney, 22. A house with a chimney, 23. A house with a chimney, 24. A house with a chimney, 25. A house with a chimney, 26. A house with a chimney, 27. A house with a chimney, 28. A house with a chimney, 29. A house with a chimney, 30. A house with a chimney, 31. A house with a chimney, 32. A house with a chimney, 33. A house with a chimney, 34. A house with a chimney, 35. A house with a chimney.

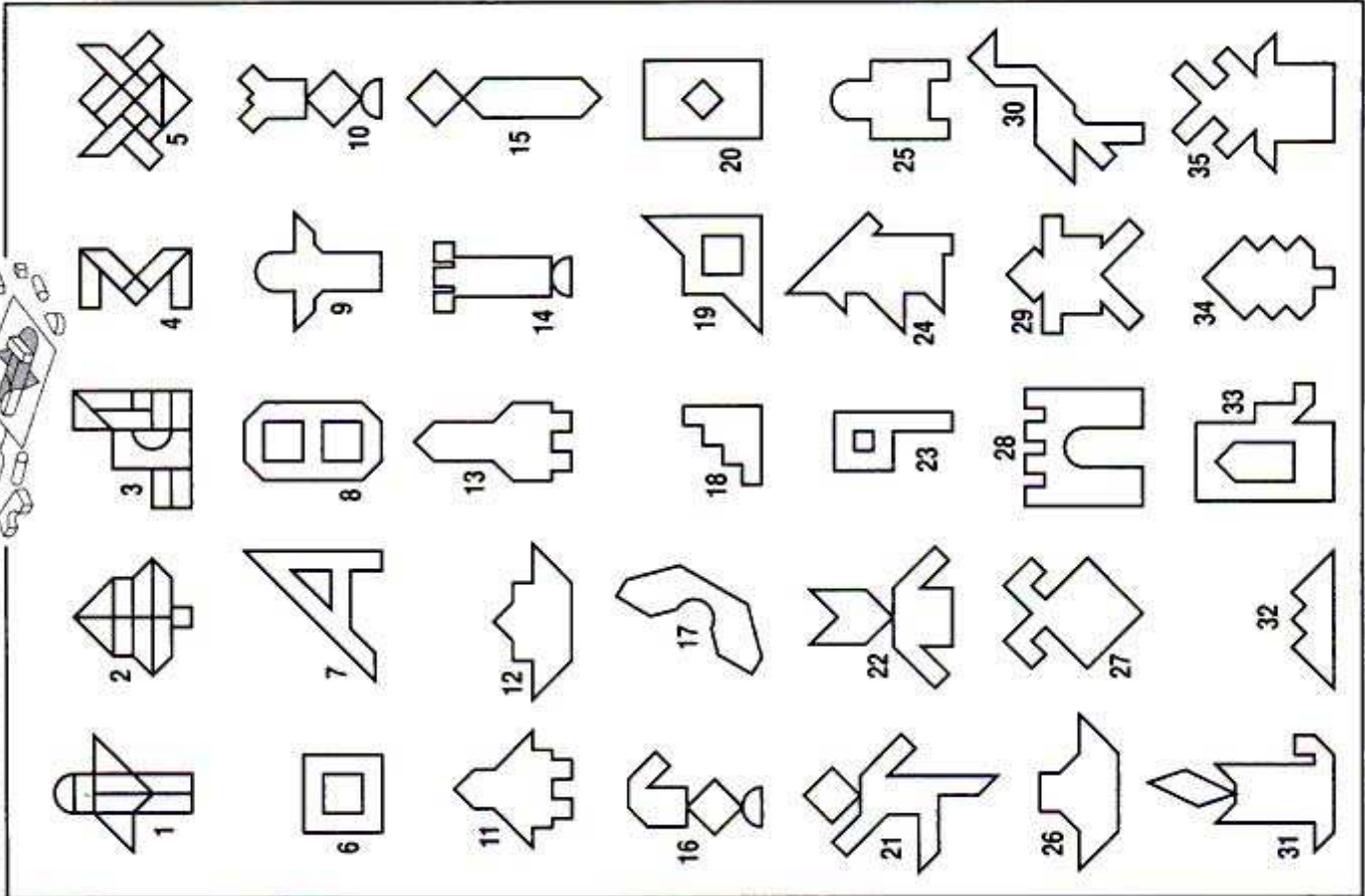
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## FEUILLE DE ROUTE : Réductions

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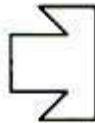
**Feuille de route** Checklist

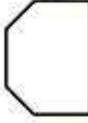


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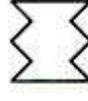
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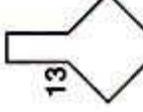
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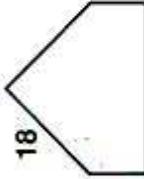
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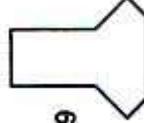
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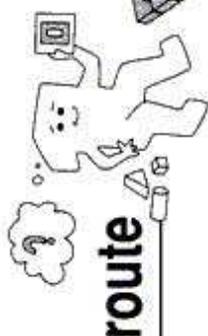
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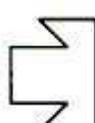
**Feuille de route** Checklist

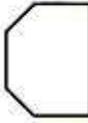


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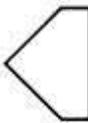
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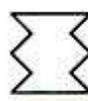
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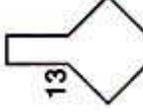
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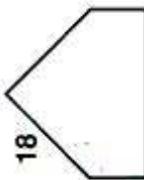
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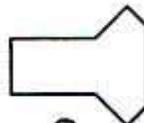
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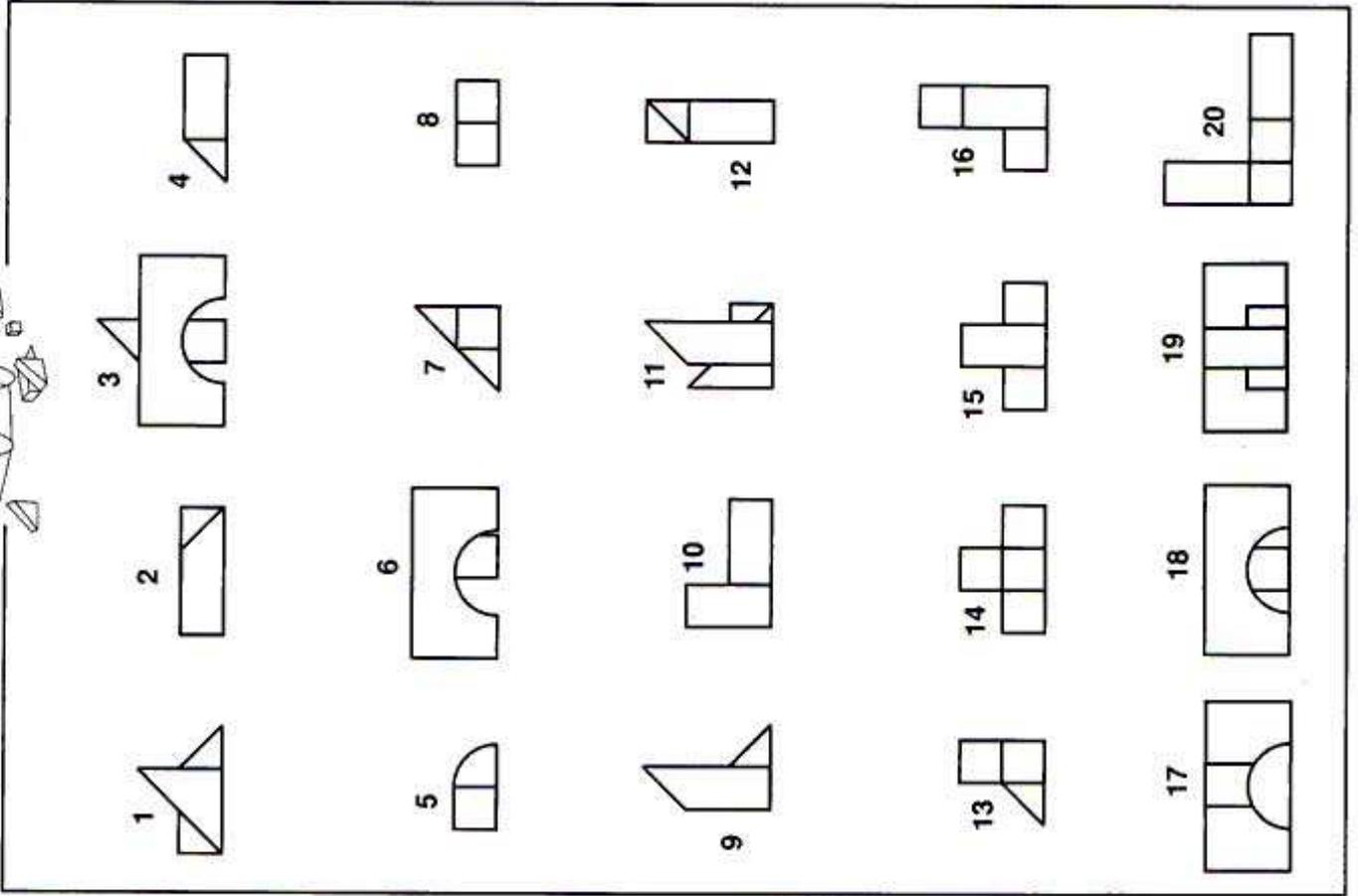
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### Feuille de route Checklist

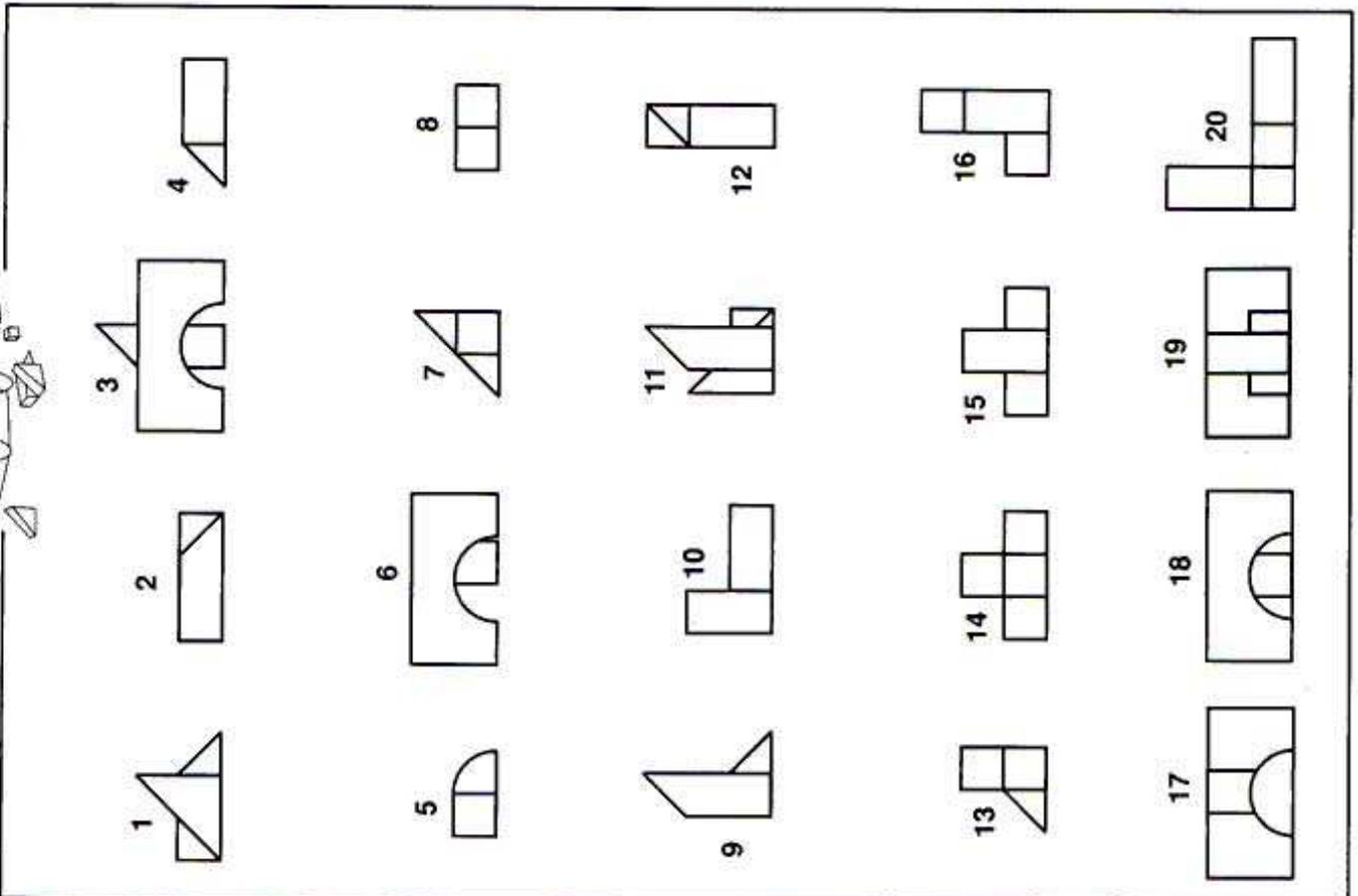


A grid of 20 numbered geometric shapes arranged in four rows and five columns. The shapes are: 1. A right-angled triangle with the hypotenuse on the left. 2. A rectangle with a diagonal line from the top-left to the bottom-right. 3. A rectangle with a semi-circle on the top edge. 4. A rectangle with a diagonal line from the top-right to the bottom-left. 5. A semi-circle on top of a rectangle. 6. A rectangle with a semi-circle on the bottom edge. 7. A right-angled triangle with the hypotenuse on the right. 8. A rectangle divided into two equal horizontal sections. 9. A right-angled triangle with the hypotenuse on the right. 10. A rectangle with a smaller rectangle attached to its top edge. 11. A right-angled triangle with the hypotenuse on the left. 12. A rectangle with a diagonal line from the top-left to the bottom-right. 13. A rectangle with a smaller rectangle attached to its left edge. 14. A rectangle with a smaller rectangle attached to its top edge. 15. A rectangle with a smaller rectangle attached to its right edge. 16. A rectangle with a smaller rectangle attached to its top edge. 17. A rectangle with a semi-circle on the bottom edge. 18. A rectangle with a semi-circle on the top edge. 19. A rectangle with a smaller rectangle attached to its right edge. 20. A rectangle with a smaller rectangle attached to its top edge.

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