Consider the following simple network (very similar to example in talk, just with longer and more fiber links):

Use the tables below to develop pricing for a network based on gigabit Ethernet and 10gig Ethernet links for all fiber types (OM1, OM2, OM3, OM4, and G.652.D).

|  |  |
| --- | --- |
| **Types of Optical Interfaces** |  |
| Standard | Speed | Supported Fiber | Cost |
| 100baseFX | 100Mbs | MM | $250  |
| 1000baseSX | 1000Mbs | MM | $500  |
| 1000baseLX/LH | 1000Mbs | MM or SM | $1,000  |
| 10GbaseSR | 10Gbs | MM | $1,500  |
| 10GbaseLRM | 10Gbs | MM | $1,300  |
| 10GbaseLR | 10Gbs | SM | $4,000  |
| 10GbaseER | 10Gbs | SM | $10,000  |
| **Distances Supported by Interfaces** |  |  |  |
| Standard | OM1 | OM2 | OM3 | OM4 | G.652.D |
| 100baseFX | 2km | 2km | 2km | 2km | No |
| 1000baseSX | 275m | 550m | 1km | 1.1km | No |
| 1000baseLX/LH | 500m | 500m | 500m | 500m | 10km |
| 10GbaseSR | 33m | 82m | 300m | 550m | No |
| 10GbaseLRM | 220m | 220m | 220m | 220m | No |
| 10GbaseLR | No | No | No | No | 10km |
| 10GbaseER | No | No | No | No | 40km |

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| --- | --- |
| **Cost of Fiber** |  |
| Fiber Type | Budget Cost per km |
| OM1 | $4,884  |
| OM2 | $4,054  |
| OM3 | $10,151  |
| OM4 | $19,959  |
| G.652.D | $1,185  |

Here are some worksheets to use.

What is the total installed fiber length?

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| **Cost of 1 Gigabit Network** |  |  |
| Fiber Type | Fiber Cost | Optics Used | Optics Cost | Total Cost |
| OM1 |   |   |   |   |
| OM2 |   |   |   |   |
| OM3 |   |   |   |   |
| OM4 |   |   |   |   |
| G.652.D |   |   |   |   |

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| **Cost of 10 Gigabit Network** |  |  |
| Fiber Type | Fiber Cost | Optics Used | Optics Cost | Total Cost |
| OM1 |   |   |   |   |
| OM2 |   |   |   |   |
| OM3 |   |   |   |   |
| OM4 |   |   |   |   |
| G.652.D |   |   |   |   |